CONSTRUCTION NEWS

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CONTENTS.

CONSTRUCTION NEWS:
Railways 239
Electric Railways 239
Light and Power Plants 240
Bridges 241
Building 241
Water Supply and Irrigation 242
Sewerage 243
Garbage Disposal 243
Streets and Roads 243
Manufacturing Plants 244
Miscellaneous Contracts 245
Plans and Specifications on File. 245
List of Contracts Pending..... 245
U. S. Possessions and Cuba..... 246
EXAMINATIONS 246
PROPOSALS 246

RAILWAYS.

Waltham, Mass.—The report of the grade crossing elimination commission will soon be made public. It is understood to recommend the expenditure of one million dollars, divided between the railroad, the state, and the city. Arthur Lord, Prof. George F. Swain and P. H. Cooney compose the commission.

Pennsylvania.—Philadelphia & Reading R. R.—It is reported that this company is considering the construction of a line to connect with the Shenandoah branch at the Rappahannock, follow along the mountain north of Girardville to Oakland, and from there over the summit by an easy grade. William Hunter, Philadelphia, is Ch. Engr.

Maryland—Baltimore & Pennsylvania R. R.—This company has been granted permission to construct a road from Reisterstown to Hanover.

North Carolina—Randolph & Cumberland R. R.—This company has completed plans for the extension of its line from Winston-Salem to Elkin. D. A. MacDonald, Carthage, is Pres.

Alabama—Pensacola & Mobile R. R.—This company proposes to construct a line running from Baldwin County across the Perdido River into Florida. The line will connect with the Louisville & Nashville tracks at Contonment, Fla. P. K. Yonge is Pres.

Mississippi—Gulfport & Northwestern R. R.—It is reported that this company has been incorporated and will construct a line into Gulfport, making the Baton Rouge connections.

Michigan—Grand Trunk Ry.—It is reported that this company is to build a branch from its main line at Pickford to the Soo and ultimately to Superior. H. R. Safford, Montreal, Que., is Ch. Engr.

Wisconsin—A railway project, in which Thomas MacDonald of Lancaster is interested, is being planned. It will connect Lancaster with Beetown, North Andover, Bloomington, Patch Grove and Liberty Ridge. The length of the line will be about 60 miles and the cost about $30,000.

Iowa—Iowa Central Ry.—This company is planning the extension of its line from Albia to St. Louis, Mo. The line will be about 200 miles in length. R. G. Kenley, Minneapolis, Minn., is Ch. Engr.

Arkansas—Russellville, Dover & Northern R. R.—This company is planning the construction of a line from Russellville to Dover. A charter has been granted by the state. W. H. Garango, State National Bank, Little Rock, is interested.

Texas—Pecos Valley Southern Ry.—This company has issued $400,000 in bonds for the construction of a 41-mile line from Pecos to Toyahvale. L. W. Anderson, Pecos, is Ch. Engr.

✚Texas—Houston & Texas Central R. R.—The contract for the first section, 13 miles, of the Stone City cut-off has been awarded to OWENS, LEVY & OWENS, 206 Burnett Bldg., Houston. Noted Nov. 9.

Oklahoma—James Jacobs, Chikasha, and other capitalists are contemplating the construction of a line from Oklahoma City to Galveston, Tex., which will be 50 miles shorter than the most direct route in operation. The entire cost of the undertaking is estimated at $16,000,000.

Colorado—Argentine Central R. R.—This company is planning the construction of a 17-mile line from Waldorf to Keystone. E. J. Tuttle, Denver, is Gen. Mgr.

✚Oregon—Southern Pacific Company—The contract for the construction of the first 23 miles of the Eugene-Coos Bay line has been awarded to TWOHY BROS. at $500,000.

California—A new company has been organized for the purpose of constructing a line from Fresno, to run 78 miles north to Shaver Lake. Albert B. Dodd, San Francisco, and F. M. Meggs, Oakland, are interested.

Ontario—Canadian Northern Ry.—This company is planning an extension of its line from Toronto to Buffalo. T. Turnbull, Winnipeg, Man., is Ch. Engr.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

Rockland, Me.—The Rockland, South Thomaston & St. George Ry. Co. will award contracts early in the spring for about three miles of new track. Alfred S. Black, 320 Main St., Rockland, is Pres. and Gen. Mgr.

✚Brattleboro, Vt.—The Brattleboro Street Ry. Co. has awarded a contract to CROSBY & PARKER, Brattleboro, for the construction of a ½-mile line on South Main St.

✚Springfield, Mass.—The contracts for the construction of the Hampden railway have been awarded to C. W. BLAKESLEE & SONS, New Haven, Conn., and the BIRNIE, ADAMS & RUXTON CO., Springfield.

Trenton, N. J.—An ordinance has been approved by the Board of Public Utility Commissioners granting the Trenton & Mercer County Traction Co. permission to construct a double track railway on Hamilton Ave. Noted Oct. 5.

Pittsburgh, Pa.—The project of constructing the line connecting Pittsburgh, Steubenville and Wheeling has been taken up again by the Pittsburgh, Steubenville & Wheeling Ry. Co. The project has been brewing for about two years and engineers of New York and Pittsburgh have been examining routes. The final conclusion is to have the line start at Liberty Ave., near Ferry St., cross the Monongahela River on a new bridge, tunnel through Mount Washington, and thence run through Greentree Borough along the Washington pike to Carnegie, Ewingsville, Rensdale, Oakdale, Midway, Bulger, Burgettstown; thence running southwest through Cross Creek, Patterson Mills, Avela, Independence, Bethany, West Liberty, Clinton, Greggs to Wheeling, with the Steubenville line running northwest from Burgettstown, through Florence to Hollidays Cove.

Sharon, Pa.—The Valley Street Ry. Co., owned by the Youngstown-Sharon Ry. & Light Co., has engaged Engr. Griff Nicholls to make a survey for an extension to its line here and at South Sharon costing approximately $200,000. The proposed line will run through the eastern part of the city, thence to South Sharon, making a loop. A franchise will be asked for within a few weeks. M. E. McCaskey, Youngstown, is Gen. Mgr.

Frederick, Md.—The Frederick R. R. Co. has decided to build a branch road from Jefferson County to Brunswick in Frederick County, a distance of about seven miles. Surveys are being made. An expenditure of $75,000 will be made. O. B. Coblentz is Ch. Engr.

Clarksburg, W. Va.—The Fairmont & Clarksburg Traction Co. is selecting a route for its proposed extension from Clarksburg to Northview. J. P. Wigginton, Fairmont, W. Va., is Ch. Engr.

✚Anderson, S. C.—The Greenville & Anderson Ry. Co. has awarded a contract to MEALOS & KLINE, Middletown, Ohio, for the concrete work on the main line entering Anderson and on the line between the Riverside-Toxaway and Orr Mills. Other contracts, it is believed, will soon be awarded. W. J. Thrakston, Greenville, S. C., is Pres. and Gen. Mgr.

Uniontown, Ky.—Preliminary location surveys, for approximately 200 miles of railway, are being made by the Kentucky Southwestern Electric Ry., Light & Power Co., from Uniontown, Ky., passing through the counties of Union, Crittenden, Livingston, McCracken, Ballard, Carlisle, Graves and Hickman, Fulton and Calloway. Paducah will be the central city of the system. The road will be designed for the heaviest type of freight and passenger traffic. Final surveys will be completed on or about March 1, when the contracts for the construction will be let, as the financial factors have been arranged. W. A. Calhoun, City National Bank Bldg., Paducah, Ky., is Consult. Engr. Noted Sept. 14.

Akron, Ohio.—The Canton-Akron Consolidated Ry. Co. has purchased property on East Market St., to lay an extra track through the city. It is announced that a union depot will be built next spring. The offices are at 126 North Market St., Canton, Ohio.

Richmond, Ind.—The Indiana & Eastern Traction Co. is making final surveys for the construction of a line from Richmond to Hamilton, Ohio. Contracts for the construction will be let soon, it is reported. L. A. Jordon is Secy.

Vincennes, Ind.—The Vincennes Traction Co. is planning to make improvements to its lines in Vincennes.

Pekin, Ill.—The Pekin City Ry. Co. is planning to extend its line in Pekin and also to Tremont, Delavan, Hopedale, Boynton and Hittle.

White Hall, Ill.—The Alton, Jacksonville & Peoria Ry. Co. is considering completing its extension from Godfrey to Jerseyville. W. R. Heagler, 107 Belle St., Alton, Ill., is Ch. Engr.

Lincoln, Neb.—Press reports state that contracts will be awarded by the Omaha, Lincoln & Beatrice Ry. Co. within a few week for the construction of a railway to the summit of Pike's Peak. Harvey Musser, Akron, Ohio, is Pres.

Corpus Christi, Tex.—The Corpus Christi Street Ry. Co. will extend its line six blocks and make other improvements. A bridge across an arroyo will be built. The cost is estimated at $5,000.

Dallas, Tex.—The Commissioners' Court has granted John T. Witt a franchise to construct an interurban railway from the west bank of the Trinity River to a point ten miles west in the county.

The Dallas Interurban Electric Ry. Co. will lay 15 miles of track out from Dallas. Materials, including 60 to 70-lb. rails, ties, bridges, culverts, piling for trestling, etc., will be needed. J. M. Carter, Scollard Bldg., Dallas, is Gen. Mgr.

El Paso, Tex.—Surveys are being made and rights-of-way secured for a line connecting El Paso and Clint, it is reported. R. L. Dorbant and W. E. Anderson are interested.

Fort Worth, Tex.—The Fort Worth Southern Traction Co. has arranged with the Stone & Webster Engineering Corporation, of Boston, Mass., for the engineering and construction of an interurban line between the city limits of Fort Worth, Tex., and the town of Cleburne, about 30 miles. The track will be laid with 70-lb. rails and the main pole line will cary, in addition to the trolley wires and the direct current feeders, about 24 miles of 15,000 volt overhead transmission line connecting the power system operated by the Northern Texas Traction Co. with two substations to be built on the new line. The substations will be of brick and equipped with rotary converters, step-down transformers, alternating current and direct current, switchboards, etc.

The Fort Worth & Southwestern Ry. Co. has been chartered to build a railway connecting Glen Rose and Walnut Springs and Fort Worth. W. D. Morton, Glen Rose; W. B. Harrison, Fort Worth, and D. C. Morris, Walnut Springs, are the incorporators.

Gainesville, Tex.—A reorganization of the Gainesville, Whitesboro & Sherman Ry. Co. is being made, and it is stated that work will be resumed on the line between Gainesville and Sherman, eleven miles, of which has been graded. John King, Gainesville, is Pres.

Mission, Tex.—The Business Men's League has accepted a proposition made by the San Benito & Rio Grande Interurban Ry. Co. for the construction of an extension of its line to Mission and Monte Christo. It is announced in this connection that it is the purpose to ultimately make San Antonio the northern terminus of the system.

Tulsa, Okla.—The Sapulpa & Interurban Ry. Co. contemplates building extensions to Tulso and to Okmulgee.

Manitou, Colo.—The Pike's Peak Aerial Ry. Co., Manitou, will begin construction on an aerial passenger railway from Manitou to the summit of Pike's Peak. E. A. Norton, First National Bank Bldg., Manitou; F. R. Coffman, and H. A. Lindsey are interested.

San Diego, Cal.—The directors of the Pacific Electric Co. has assured the report that San Diego will be connected with Los Angeles by an electric line, it is stated. A bond issue of $100,000,000 will be made. Santa Barbara, San Bernardino and other cities will also be terminals of the system.

San Francisco, Cal.—See item under Miscellaneous Contracts—Street Cars.

Montreal, Que.—The Montreal & Southern Counties Ry. Co. has leased the Central Vermont R. R. for a period of 99 years. New rails will be laid and a steel bridge with a span of 140 ft. will be built over the Montreal River. H. J. Kelly, Montreal, is Engr.

Ridgeway, Ont.—E. W. Near has reported to the Board of Trade that $11,800 has been subscribed for the building of an electric railway between Ridgeway and Crystal Beach. George Petit has been directed to prepare papers for application to the municipality of Bertie for a franchise.

Lethbridge, Alta.—The City Commissioners will soon let contracts for track and overhead material in connection with the line in Lethbridge for the Lethbridge Municipal Tramway Co.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

Concord, N. H.—A new ornamental street-lighting system will be installed in the business section to replace the arc lamp system now in use.

Fitzwilliam, N. H.—The New Hampshire Electric Light Co. has recently purchased the plant and holdings owned by the Troy & Jaffray Electric Light Co., and assumed its contracts. Application has been made for a franchise to erect a transmission line in Fitzwilliam. A transmission line from a point on the line operated by Connecticut River Co. at Gardner through Winchendon to Fitzwilliam, Richmond and Winchester, N. H., is under consideration.

Manchester, N. H.—Rights-of-way have been secured by the Central New Hampshire Power Co. for the erection of a transmission line connecting Goffstown, Bedford, Merrimack and Hudson.

Burlington, Vt.—Improvements will be made at the municipal electric light plant, amounting to about $30,000, it is stated.

Greenfield, Mass.—Plans have been approved for a dam to be located 2¼ miles down the Deerfield River from Shelburne Falls and for another between Charlemont and Buckland near Scott's bridge for the Connecticut River Power Co. Arnold B. Chase, Jr., Providence, R. I., and Henry I. Harriman, Boston, Mass., are the Engrs. Noted under Deerfield, Mass., on Aug. 31.

Chicopee, Mass.—The Board of Aldermen have voted in favor of a bond issue of $96,000 to be used for the reconstruction of the municipal electric light plant. Noted Oct. 5.

New Haven, Conn.—The Connecticut Co. will build an addition, estimated to cost $25,000, to its power plant on Grand Ave., New Haven. Electric appliances will be installed at a cost of about $100,000. J. K. Punderford, New Haven, is Gen. Mgr.

✚New York, N. Y.—The State Commission in Lunacy, Albany, N. Y., has awarded a contract to FROST & SHELDON, Albany, N. Y., at $6,285, for a new engine and generator to be installed in the Manhattan State Hospital, Wards Island, N. Y. Franklin B. Ware, Albany, is State Arch.

New York, N. Y.—Bids will be received by Joseph Johnson, Fire Comr., 157-159 East 67th St. until 10.30 a. m., Dec. 12, for furnishing all the labor and materials required for establishing and equipping an extension of the fire alarm telegraph system in the Boro. of Richmond, and for furnishing all the labor and materials required for establishing and equipping an extension of the underground fire alarm telegraph system in the Boros. of Manhattan and Brooklyn.

Lestershire, N. Y.—Press reports state that the Village Trustees have decided to install a new boulevard lighting system. Noted Oct. 19.

Tacoma Park (Washington post-office), **D. C.**—No bids were received Nov. 13 by Benjamin G. Davis, City Clk., for furnishing and installing a new street lighting system for a period of two years. A municipal lighting plant is now contemplated.

Richmond, Va.—Plans are in progress and bids will be received within a month, for the construction of a power plant, at the foot of Twelfth St. for the Virginia Passenger & Power Co. The cost is estimated at $500,000. William Northrop, Richmond, is Pres.

Honea Path, S. C.—See item under Water Supply—Irrigation.

Royston, Ga.—The property has been secured on which to erect a hydro-electric plant for the purpose of furnishing light and power to four towns in the vicinity. Bids will be asked in the early spring. James J. Roberts is interested. Noted Nov. 16.

Atlanta, Ga.—The Appalachian Electric Power Co. is selecting a site to develop power. Toccoa, Ga., and Walhalla, Seneca and Westminster, S. C., will be supplied with electricity, it is reported.

✚Ft. Barrancas, Fla.—A contract has been awarded to A. M. LOCKETT & CO., New Orleans, La., at $9,650, for furnishing pump and other work in connection with power plant at Ft. Barrancas.

Jacksonville, Fla.—Bids were opened Nov. 6 for the construction of the new municipal power station, as follows: General Fire Extinguisher Co., Atlanta, Ga., $33,180; Dougherty & Bochren, Philadelphia, Pa., $36,774; William A. Pope, Chicago, $46,794; Pittsburgh Piping Co., Pittsburgh, Pa., $35,900. For pipe covering: Daniel P. Douglas Co., New York, $3,090; Phillip Carey Co., Philadelphia, Pa., $3,875; Arratt Magnesia Pipe Covering Co., Pittsburgh, Pa., $3,580; H. W. Johns-Manville Co., $5,321. For storage battery: Gould Storage Battery Co., New York, $1,320; Electrical Storage Battery Co., Philadelphia, Pa., $1,549.

Cowan, Tenn.—Plans to install a municipal electric light plant are being considered.

✚Louisville, Ky.—A contract has been awarded to HARRY I. WOOD CO. for the electrical work in connection with the installation of a new fire alarm system in the city hall. F. S. SCHARDEIN & SONS CO. was awarded the contract for the steam heating system.

✚Columbus, Ohio.—A contract has been awarded by the Public Service to D. W. McGRATH, Columbus, at $5,294, for an addition to the municipal electric light plant on West Spring St.

Kendallville, Ind.—An appropriation of $5,000 has been made by the City Council for the installation of a boulevard lighting system. An order for the standards has been placed.

Salem, Ind.—Press reports state that new equipment will be installed and that additions will be made by the Salem Electric Light & Artificial Ice Co. at its plant. An increase of $15,000 capital has been made.

Tallula, Ill.—Abbott Bros., of Petersburgh, Ill., have purchased the electric lighting paint and has been granted franchises for the present system in the village for 25 years and to light the streets of the village for a period of ten years. Alterations will be made at the plant and 60 incandescent lamps of 50 cp. will be installed.

Washburn, Ill.—Hollenback & Vorhees, of Fairbury, have purchased the plant and holdings owned by the Washburn Electric Co. and will make extensive improvements. A 24-hour service will be installed, it is reported.

Geneva, Ill.—Improvements will be made to the electric light plant, it is stated. Equipment, for a new 33-cycle system, will be installed.

De Pere, Wis.—L. N. Boyson, Chicago, Ill., has applied for a franchise to erect a gas plant and plans to furnish the city with gas.

Glidden, Iowa.—The citizens have voted in favor of a $10,000 bond issue for an electric light plant. O. B. Moorhouse is City Clk. Noted Oct. 12.

Corydon, Iowa.—No bids will be received as advertised for Dec. 5 for the reconstruction of the municipal electric light plant. Changes will be made in the plans and probably new bids will be asked.

Steamboat Rock, Iowa.—The citizens have voted in favor of installing an electric-light plant and system.

Keokuk, Iowa.—Plans and details for the transmission line from the Keokuk dam to St. Louis, about 167 miles. All the rights-of-way between the hydro-electric plant now under construction, at Keokuk and St. Louis. This right-of-way is 100 ft. wide the greater part of the way. Among the incidental projects which may be realized are a new double track electric railway along the route in St. Louis County, and an interurban line from Keokuk to Quincy, Ill. The transmission line begins at Hamilton, Ill., at the eastern end of the dam, and the route extends southward, parallel to the Mississippi River to Quincy, Ill. From Quincy the course is direct to Alton. The cables will be carried across the Mississippi River at Alton to the Missouri shore, and across the Missouri River from north to south about six miles below St. Charles. Thence the line will run to Florissant and into St. Louis. Steel towers 150 ft. high will support the cables across the rivers. The first land tower will be erected just below the dam on the Illinois side. These towers will be 80 ft. high. Stone & Webster, 147 Milk St., Boston, Mass., prepared the plans. The cost is estimated at nearly $2,000,000. Noted Sept. 14.

Foley, Minn.—A franchise has been granted to the Battery Co., of Milwaukee, Wis., to install an electric-light plant here. Otto Jensen is Local Mgr.

Kansas City, Kan.—Bids will be received by G. B. Little, City Clk., City Hall, Kansas City, until Dec. 5 for furnishing and erecting 450 arc lamps.

Hill City, Kan.—See item under Water Supply—Irrigation.

Leavenworth, Kan.—See item under Water Supply—Irrigation.

St. Joseph, Mo.—The St. Joseph Ry., Light & Power Co. will install 16 additional blocks of ornamental street lamps in the business district. The city will build conduits costing about $8,000 and the company will install and maintain the lamp standards. A contract has been given to the lighting company to maintain the lamps for a period of five years.

Fort Worth, Tex.—See item under Electric Railways—Substations.

Beaumont, Tex.—The Stone & Webster Engineering Corporation interests which recently took over the local electric light and power plant here has organized the Beaumont Electric Light & Power Co. to operate the present plant and to make important enlargements. The incorporators are Marshall M. Phinney, of Boston; C. W. Kellogg, Jr., of Dallas; E. J. Emerson, of Beaumont; L. C. Bradley, of Galveston; David Daly, Harry L. Harding, and W. H. Stevens, of Houston. It is reported that the new company will construct an interurban electric railway between Beaumont and Port Arthur, 25 miles.

Dallas, Tex.—The Dallas Electric Light & Power Co. will nearly double the capacity of its power plant, making an installation of machinery sufficient to add 5,000 KW. to its present capacity. Stone & Webster, 147 Milk St., Boston, Mass., own the interurban lines that run between Dallas and Fort Worth and between Dallas and Sherman. It is stated that improvements to the local street railway system will be made.

Sherman, Tex.—Pumps and other machinery will be installed in the municipal electric light and water plant, it is reported. Harvey McDuffie is Supt.

Waxahachie, Tex.—A franchise has been granted for the installation of a gas-producing plant and distributing system, to a syndicate including Hudson T. Morton and J. H. Taylor, of Ann Arbor, R. G. Steele, of St. Johns, Andrew Fyfe, of Grand Rapids, F. E. Turrell, William T. Utley and H. M. Wallace, of Detroit.

Colorado Springs, Colo.—All bids, received on Nov. 6, for the construction of a power plant to be erected at the tuberculosis colony of the Modern Woodmen of America, were rejected by the committee.

Walsenburg, Colo.—The Trinidad Electric Transmission, Gas & Ry. Co., Trinidad, Colo., is arranging to construct a power plant near Walsenburg, where 4000 KW. will be developed. This is a project to furnish electricity to the mines in the vicinity.

Willard, N. Mex.—The installation of an electric power plant is under consideration to supply electricity for irrigation purposes. The cost is estimated at $126,000. Harry Curtin, of Clarksburg, W. Va., is interested.

Winnemucca, Nev.—Plans and specifications for the installation of an electric-light plant and water-works will be prepared for the Board of County Commissioners of Humboldt County by Burns & McDonald, Consult. Engrs., of Kansas City, Mo.

Dixie, Idaho.—The installation of a power plant is being considered by the Idaho Realty Power & Mines Co. Electricity will be furnished to towns in the vicinity. S. R. Cayton is Mgr.

Wallace, Idaho.—The Long Valley Light & Power Co. has been incorporated for the purpose of erecting a hydroelectric plant on the North Fork of the Payette River. About 4,000 HP. will be developed. Electricity will be distributed in Rosebury, Crawford, Lardo & Thunder City. Walter C. Clark, of the Bunker Hill & Sullivan Mining Co., of Wardner, Idaho, is Pres.

✚Sedro-Woolley, Wash.—Bids were opened Nov. 13 by the State Board of Control, Olympia, for a power-house complete for the Northern Hospital for Insane as follows: The power-house building, P. S. BRIDGE & DREDGING CO., $15,485 (awarded contract); Matt Brannigan, $16,968; Jenkins & Jones, $22,944; Sundberg & Lundstrum, $23,600; T. Strauuin & Son, $25,500; Meacham & Babcock, $25,700; John Galber, $26,957; Graff Construction Co., $26,788. For electrical equipment, Standard Engineering Co., $2,650; Evans-Dickson Co., $3,645; MEACHAM & BABCOCK, $4,485 (awarded contract). For mechanical equipment, ECKART HEATING & PLUMBING CO., $34,920 (awarded contract); Seattle Heat & Plumbing Co., $36,262; Ben Olson Co., $36,500; Meacham & Babcock, $37,200; Rautman Plumbing & Heating Co., $39,000; Hallidie Machinery Co., $39,749; M. A. Thompson Heating Co., $41,300; Union Machinery & Supply Co., $42,000; Lavan Plumbing & Heating Co., $42,415; C. C. Moore Co., $46,980.

Sultan, Wash.—A municipal electrical distributing system is contemplated. W. F. Leavell is Town Clk.

Placerville, Cal.—Bids will be received by T. C. Atwood, County Clerk, up to 2 p. m., Jan. 3, 1912, for the construction and installation complete of the lighting and fixtures for all electric outlets in the court-house here and outside standards at the entrance thereto. Plans and specifications are on file at office of Cuff & Diggs, Archs., Sacramento, Cal., and at the office of the County Clerk.

Alameda, Cal.—Bids will be received by the City Council until 5 p. m., Dec. 5, for the construction of iron pipe lamp posts, conduits, and wiring in a number of streets. Plans and specifications are on file at the office of the Clerk. F. E. Browning is Clk.

Bakersfield, Cal.—The Southern Sierras Power Co. will shortly file articles of incorporation here, having for its purpose the construction of plants and lines for supplying light and power to towns, mines and railroads. The company is operating in Colorado and Wyoming. The directors are Lawrence Phipps, Jr., T. S. Hayden, G. Wood, and C. F. Potter.

Huntington Beach, Cal.—G. G. Ivy, of Fullerton, will erect a gas plant here to have a capacity of 50,000 cu. ft. of gas per ten hours.

Los Angeles, Cal.—The Pacific Light & Power Co. is about to issue bonds for $35,000,000, $26,000,000 of which will be used on improvements, betterments and extensions. The new issue provides for the building of a hydro-electric power plant at Big Creek in the mountains of Eastern Fresno County, which will supply power, not only for the enterprises already supplied, but for new undertakings, electrical railways and manufacturing plants which may spring up as soon as the necessary power for the operation can be delivered. This power plant will also furnish electricity for the Pacific Electric Ry. System of Los Angeles and vicinity.

Martinez, Cal.—A new Tungsten system will be installed by the Pacific Gas & Electric Co.

✚Bishop, Cal.—A contract has been awarded by the Nevada-California Power Co., to NEIL MCLEAN, of Tonopah, Nev., for building a 350-mile section of the transmission line between Bishop and Los Angeles.

Brawley, Cal.—The Bernice Water Co., has recently been incorporated and is preparing plans for the erection of a hydroelectric power plant on the Alamo River. Frank Salisbury and W. H. Best are directors.

Fresno, Cal.—The Pacific Light & Power Co., Los Angeles, has been granted by the Board of Supervisors of Fresno County, a 50-year franchise to erect and maintain transmission lines from the San Joaquin River to Sierra National Forest Reserve, and other points. A transmission line from its proposed power plant at Big Creek to Los Angeles, about 275 miles long, will be built. An expenditure of about $10,000,000 will be made, it is reported.

Oxnard, Cal.—The City Trustees has under consideration a plan to install a municipal-light plant.

✚Palo Alto, Cal.—The Board of Trustees of Leland Stanford University, has awarded the contract to FRANK M. GARDEN & CO., 251 Kearny St., San Francisco, at $14,000, for the general work in connection with the construction of a reinforced-concrete power house, to be erected on the University Campus, from the plans of Prof. W. F. Durand, of the college faculty.

San Rafael, Cal.—Bids will be received until Dec. 3 by Robert E. Graham, Clk. Bd. Supervs., for the installation and maintenance of an electric street-lighting system complete, in the Corte-Madera lighting district.

San Rafael, Cal.—Bids will be received by the Board of Supervisors until 2 p. m., Dec. 5, for the installation and maintenance of poles, wires, lights and other accessories, and necessary for a complete street lighting system in the Corte-Madera Lighting District. Robert F. Granam is Clk.

Stockton, Cal.—The citizens have voted in favor of the installation of a municipal electrolier street-lighting system. The wires will be placed underground.

***San Diego, Cal.**—Bids will be received by James Knox Taylor, Supervy. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 27, for the construction of a heating and ventilating apparatus for the U. S. post-office and custom-house at San Diego. Drawings and specifications may be obtained from the Superintendent of Construction or from the office of James Knox Taylor. Advertised last week.

BRIDGES.

(✚Denotes a contract awarded.)

✚Boston, Mass.—Bids for rebuilding draw span, pile bridge, etc., at Meridan St., East Boston to Chelsea, were received, Nov. 13, as follows: LAWLER BROS., 16 City Square, Charlestown, Mass., $122,180 (awarded contract); W. H. Ellis, $122,287; H. P. Converse & Co., $132,230; J. T. Scully F. & T. Co., $133,451; W. H. Keyes & Co., $144,171. Engineer's estimate, $148,945. Noted Oct. 26.

***✚Ansonia, Conn.**—A contract has been awarded to the O'BRIEN CONSTRUCTION CO., 576 Morris Park Ave., New York, for the construction of a concrete arch bridge over the Naugatuck River and the Western Division of the New York, New Haven & Hartford R. R., at Bridge St. The structure will be 60 ft. wide, about 600 ft. long and will cost approximately $130,000. The railroad company will bear part of the expense. The plans were drawn by its engineers at New Haven. Edward Gagel is Ch. Engr. Mayor Stephen Charters, C. F. Bliss and C. Y. Woodruff are the Bridge Commission for the City of Ansonia. Noted Oct. 12.

Danbury, Conn.—This city is planning the erection of a bridge on White St. which is estimated to cost about $20,000. Noted Aug. 10.

✚Stamford, Conn.—A contract for the construction of a concrete bridge here has been awarded to the O'CONNOR CONCRETE CONSTRUCTION CO., Stamford, Conn., at $13,990.

Buffalo, N. Y.—An agreement has been reached between the City of Buffalo and the Erie, Lehigh Valley, Nickel Plate and Buffalo Creek R. R. for building bridges of the single span lift type over the Buffalo River. The bridges will give a clearance of 100 ft. and a 225-ft. channel. Contracts will be awarded by the Commissioner of Public Works as soon as specifications can be drawn. Noted Oct. 26.

Oswego, N. Y.—Bids will be received by the Board of Public Works, J. A. Foster, Pres., until Dec. 18, for constructing a concrete and steel bridge across Oswego River at Broadway, according to the plans of the Concrete Steel Engineering Co., Park Row Bldg., New York.

***South River, N. J.**—Bids will be received by the Board of Freeholders until 2 p. m., Dec. 18, for the construction of a drawbridge over the Cheesequake Creek at Morgan Station.

✚Middletown, Pa.—The contract for the construction of a steel girder bridge across the Swatara Creek has been awarded to G. W. ENSIGN, Camp Hill, at $11,258.

Harrisburg, Pa.—Bids for the construction of a steel and concrete bridge over Swatara Creek between Middletown and Royalton have been received by the County Commissioners as follows: A. Buchanan, Chambersburg, concrete, $18,000, steel, $13,800; Stucker Brothers' Construction Co., Harrisburg, steel, $12,330, modified [illegible] Ferro Concrete Co., [illegible] crete, $11,931; G. W. [illegible] 258; Carl R. Camp, [illegible] $13,657; W. F. Shoemaker, [illegible] town, steel, $12,507; Otto [illegible] Lancaster, concrete, $11,[illegible] 340; Nelson Meredith [illegible] burg, concrete, $14,375, steel [illegible]

Allentown, Pa.—The [illegible] the Lehigh Valley Transit [illegible] a $600,000 bridge, 2,000 ft. [illegible] nect Allentown with South [illegible] has been approved by the [illegible] cil.

Conshohocken, Pa.—The [illegible] missioners are in favor of [illegible] bridge over the Pennsylv[illegible] tracks and the Schuylkill [illegible] estimated cost is $250,000.

Nicholson, Pa.—The Del[illegible]awanna & Western R. R. [illegible] a bridge 2,700 ft. long across [illegible] hannock Creek at Nicholson.

Baltimore, Md.—We are [illegible] vised that the city of Balti[illegible] paring to issue plans and [illegible] for a highway bridge 26[illegible] ft. 6 ins. wide and approx[illegible] tons, over the tracks of the [illegible] & Ohio R. R., at South Mount [illegible] is at present a bridge at th[illegible] it is proposed that this be [illegible] moved and the new bridge [illegible] position, the city furnishing [illegible] foundation work and the B[illegible] ers only the steel work. [illegible] is City Engr.

Washington, D. C.—Pr[illegible] reports state that preliminary plans [illegible] completed for the bridge to be constructed from Q St., Georgetown, to Q St., Washington, the structure to be 30 ft. wide with two sidewalks each 12 ft wide. Estimated cost $2[illegible] Noted Sept. 14.

✚Jonesville, Va.—We are officially advised that contracts for bridge construction have been awarded as follows: Bridge over Powell River, to the VIRGINIA BRIDGE CO., at $3,477, seven bridges, ranging from 35 to 200 ft. long, to the ROANOKE BRIDGE CO., Roanoke, Va., at $22,011.

***Goldsboro, N. C.**—Bids will be received by Dr. W. W. Faison, Supt. State Hospital, until 12 m., Jan. 3, for furnishing and erecting the steel work for an 80-ft. span steel bridge over Little River, near the State Hospital at Goldsboro, N. C.

✚Jacksonville, Fla.—The contract for the construction of a bridge over the Nassau River has been awarded by the County Commissioners to the LOGAN CONCRETE & ENGINEER CO. Noted Nov. 9.

Bids will be received by the Board of County Commissioners until Dec. 6, for furnishing material and constructing a reinforced-concrete bridge over Goodby's Lake on the John Anderson Highway. Gail L. Barnard is County Engr., and C. W. Ellis, Chn. of Bd.

Chattanooga, Tenn.—Plans have been received by the McCallie Bridge Commission for the viaduct to be constructed over the railroad tracks at a cost of $150,000. Noted Nov. 16.

Columbus, Ohio.—Bids will be received by the County Commissioners until noon, Dec. 15, for all labor and material necessary to complete the following work:

Engineer's Estimate No. 344.—Constructing a reinforced-concrete box culvert and approaches on the Dublin Road, near the south corporation line of Dublin, Washington Township.

Engineer's Estimate No. 345.—Constructing a new floor system on the bridge over Big Walnut Creek on the Chillicothe Pike, Hamilton Township.

Engineer's Estimate No. 346.—Constructing a protection fence on the approaches to the Clckinger Bridge, over the Scioto River, Hamilton and Jackson Townships.

Massillon, Ohio.—Bids will be received until 10 a. m., Dec. 15, by the Commissioners of Stark County for constructing a Strauss trunion bascule lift bridge over the Ohio Canal at West Main St. Estimated cost, $16,000. J. H. McConnell is County Audr.

✚Petersburg, Ind.—The contract for the construction of the Pottersville Bridge across the east fork of the White River has been awarded to the VINCENNES BRIDGE CO., Vincennes, Ind., at $16,444.

Lafayette, Ind.—See item under Streets and Roads.

✚Jasper, Ind.—The Commissioners of Daviess and Dubois Counties have awarded the contract for building a steel and concrete bridge across White River at Portersville to the VINCENNES BRIDGE CO., Vincennes, at $16,444. Noted Oct. 26.

Cedar Rapids, Neb.—Bids will be received by the Clerk of Boone County, at Albion, Neb., until Dec. 19, for constructing a bridge across Cedar River, about three-quarters of a mile north of Cedar Rapids. Bids will be received on alternate designs as follows: A bridge 224 ft. long, composed of two 112-ft. spans, pin connected high trusses with concrete piers and abutments; a reinforced-concrete arch bridge composed of four 50-ft. spans. D. A. Price is State Engr., Lncoln. Noted Nov. 23.

✚Kansas City, Mo.—Press reports state that the contract for constructing the viaduct over the Kansas City Terminal Ry. tracks on McGee St. has been awarded to the W. P. CARMICHAEL CONSTRUCTION CO., St. Louis, at about $40,000.

✦La Junta, Colo.—We are officially advised that the contract for constructing 560-ft. concrete bridge over the Arkansas River east of La Junta has been awarded to PUEBLO BRIDGE Co., Pueblo, Colo., at $50,000. Noted Nov. 23.

Davenport, Wash.—Bids will be received by the Board of County Commissioners until Dec. 6 for constructing six steel bridges, and until Dec. 7 for corrugated metal culverts. J. W. Brislawn is County Audr., at Davenport.

Woodland, Wash.—Bids will be received at Feb. 1 for the construction of a bridge over Lewis River, to cost $80,000. W. R. White, Olympia, is Engr.

Los Angeles, Cal.—Bids have been received by the Board of Public Works for a pile trestle bridge at East Seventh St., Wilmington, as follows: Harmon H. Scott, $7,661; Los Angeles Bridge & Construction Co., $7,857; Chas. W. Cortelyou, $7,884; Russell Green Foell Co., $8,849; Robert Beyrle, $8,545; G. S. Atkins, $7,600; Edgar T. Wheeler, $7,660. The bridge will consist of 43 pile bents, and will be 1,000 ft. long by 20 ft. wide.

Redwood City, Cal.—Bids will be received by the Clerk of the Bd. of Supervisors until 10 a. m., Dec. 4, for constructing a steel and concrete bridge in the First Township on the main county road north of Mubrae, according to plans on file with the Clerk.

San Diego, Cal.—The Board of Supervisors will receive bids until 3 p. m., Dec. 4, for the construction of a bridge across Santa Maria Creek, on the road between Es Condido and Ramona. J. T. Butler is County Clerk.

✦Montreal, Que.—We are officially advised that the Grand Trunk Ry. has awarded a contract to JOHN S. METCALF CO., Ltd., Montreal, for the substructures of a new bridge to replace the present bridge across the Richelieu River, near Lacolle Junction, Que. The work includes a new pivot pier with protection cribs, two new rest piers, and piers for the approaches. Timber caissons filled with concrete will be used. Estimated cost of sub-structures, approximately $140,000.

Montreal, Que.—See item under Electric Railways.

Walkerton, Ont.—Bids will be received Dec. 5 for constructing a steel bridge over the Sangren River, 10th Concession, Township of Brant. The bridge will consist of two 125-ft. spans, one 90-ft. span, two abutments and two piers. The floor is to be of concrete. James Warren, Walkerton, is interested.

✦Ottawa, Ont.—The Canadian Northern Ry. is to cross the St. Lawrence River with an 11-span bridge near Montreal, between St. Genevieve and St. Dorothee. Large blocks of land in Montreal for terminals have been secured by MacKenzie & Mann.

BUILDINGS.

(✦Denotes that this work is advertised in Engineering News.)

Ellsworth, Me.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Jan. 6, for the extension, etc., (including plumbing, gas piping, heating apparatus, electric conduits and wiring system, and interior lighting fixtures), of the U. S. post-office and customhouse at Ellsworth. The extension is to be one story and basement with a ground area of 1,900 sq. ft., of non-fireproof construction, faced with granite to the first floor level and with brick above. Drawings and specifications may be obtained from the custodian of the building at Ellsworth, or at the office of the Supervising Architect.

Middlebury, Vt.—Two new buildings will be erected at Middlebury College, it is reported.

✦Ashburnham, Mass.—The contract has been awarded to H. F. LIBBY & CO., Boston, Mass., for a new dormitory at Cushing Academy. It will be of brick, 31 x 94 ft., with an L 40 x 41 ft., both three stories high and will cost about $65,000. George F. Newton, Boston, Mass., is Arch.

✦Boston, Mass.—The contract for the 20-apartment block to be built on Hemenway and Batavia Sts. for A. J. Rudnick, 58 Brunswick St., has been awarded to MORRIS RUDNICK. The cost will be about $75,000. F. A. Norcross, 46 Cornhill St., is Arch.

The S. P. C. A. proposes to construct a group of buildings on Longwood Ave. to cost $250,000. Francis H. Rowley is Pres. Putnam & Cox, 6 Hancock Ave., are the Archs.

A hospital for animals will be erected in the Back Bay District as a memorial to George T. Angell. The cost will be about $1,000,000.

Plans are being drawn for a 30-apartment house at 34 Joy St. for the New England Construction Co., 89 State St. The cost will be about $60,000. Daniel H. Woodbury, Exchange Bldg., is Arch.

Bids will be received until Dec. 7 by the Schoolhouse Commissioners for erecting and completing an elementary school building in the Roger Wolcott District. Charles Logue is Chm.

✦Cambridge, Mass.—A contract has been awarded to W. & H. A. ROOT, Shepherd St., Cambridge, for the construction of a 4-story brick dormitory for Radcliffe College. The cost is about $75,000.

Great Barrington, Mass.—A business block, 150 x 100 ft., will probably be erected on Bridge St. by J. B. Maloney.

✦Springfield, Mass.—The contract for the 24-apartment L block to be built on North Main St. for E. D. Pinney, has been awarded to D. J. DONAHUE, J. H. RANKIN & FISKE & CO.

Bids will be received until Dec. 9 for the construction of a warehouse to be erected on Lyman St. for the Henry J. Perkins Co. Thomas M. James, 15 Ashburton Pl., Boston, is Arch.

Woonsocket, R. I.—Bids will be received until Dec. 11 by the Armory Commission, Woonsocket, Edward Atchison, Chn., for constructing an armory on South Main St. Plans by William R. Walker & Son, Archs., Custom House, Providence.

Greenwich, Conn.—A building for the Y. M. C. A. will be erected here by Mrs. Nathaniel Witherell. The cost will be about $100,000.

Bridgeport, Conn.—George W. Hills is planning the erection of a 5-story, brick and steel, fireproof business block on Elm St. It will be about 70 x 55 ft. with elevator accommodations.

Greenwich, Conn.—Two school buildings, each to cost about $40,000, are being planned by this city. One will be erected on Hamilton Ave. and the other on Lake Ave.

New Haven, Conn.—Brown & Von Beren, 856 Chapel St., New Haven, have completed plans and estimates will be received soon for the erection of a 10-story, store and office building on Church St. for C. W. Murdock. The structure will be 60 x 200 ft. on the ground floor and 60 x 150 ft., for the remainder. It will have a steel frame and be faced with North Haven brick, with marble and terra cotta trim; the floors will be reinforced concrete with mosaic corridors; there will be about 200 offices and two elevators with provision for a third, interior telephone system and steam heat. Noted Oct. 12.

✦Ithaca, N. Y.—Contracts were awarded as follows for the construction of Prudence Risley Hall: DRISCOLL BROS. & CO., Ithaca, general mason and construction contract, $92,391; FOREST CITY PLUMBING CO., Ithaca, heating, $9,590; plumbing, $11,700; DAVIS-BROWN ELECTRICAL CO., Ithaca, electrical work, $6,500. The general contract does not include elevators, decorating, electrical fixtures, woodcarving and ornamental plastering, kitchen equipment, steam heating and high pressure boilers.

Newark, N. Y.—Leon Stern, Chamber of Commerce Bldg., Rochester, is preparing plans for a 6-story and basement office building to be erected by C. H. Stuart & Co. Estimated cost, $40,000.

Albany, N. Y.—It is expected that the Committee on Academies and Schools, of the Common Council, will report to the Council favoring an appropriation of $100,000 for a new high school.

✦Buffalo, N. Y.—METZ BROS., 334 Landon St., have been awarded the general contract for the substation exchange building at Elmwood Ave. and Allen St., for the New York Telephone Co., at $80,000.

✦I. S. & G. C. ROSSELL, Rochester, N. Y., have been awarded the general contract for the 15-story exchange and office building to be erected by the same company at Church and Franklin Sts. The contract includes 2,200 tons of steel work.

Lockport, N. Y.—Chester R. Phelps, Niagara Falls, N. Y., has completed plans for enlarging the court-house by the addition of a 2-story wing, of sandstone, fronting on Park Ave. Estimated cost, $150,000.

Syracuse, N. Y.—The Board of Estimate and Apportionment has approved an ordinance authorizing the purchase of land for a new grammar school and additions to three others.

Joseph A. Griffin, P. D. McCarthy and W. D. Hawley have asked bids for erecting a doctors' and dentists' office building at East Genesee and Grape Sts., from plans of C. Merritt Curtis, Arch.

New Rochelle, N. Y.—W. B. Ward, of the Ward "Tip Top" Bread Co., will erect a dwelling on Quaker Ridge Road. The cost will be about $65,000.

New York, N. Y.—Bids will be received by Joseph Johnson, Fire Comr., 157 and 159 East 67th St., until Dec. 11, for furnishing all the labor and materials required for the erection and completion of a new building for an engine and a hook and ladder company at Bailey Ave. and Albany Road, Boro. The Bronx; for furnishing all the labor and materials required for the erection and completion of a new building for an engine company at Sarah Ann and Hannah Sts., Tompkinsville, Boro. of Richmond; for furnishing all the labor and materials required for the erection and completion of a new building for an engine company on Easterly side of Seventh Ave., west of 50th St., Boro. of Brooklyn; for furnishing all the labor and materials required for the erection and completion of a new building for an engine company at 528 Knickerbocker Ave., Boro. of Brooklyn.

Bids are being received by Schwartz & Gross, 347 Fifth Ave., for the 9-story apartment house at 248-252 West 104th St. The cost will be about $160,000. The Bloomingdale Construction Co., 526 West 111th St., is the owner.

Plans are being prepared by Moore & Landsiedel, Archs., Third Ave. and 148th St., for the construction of a 6-story brick apartment house at 207th St. and Broadway. The cost will be about $150,000. T. G. Galardi & Co., 30 Emerson St., are the owners.

The Paterno Construction Co., 440 Riverside Drive, has had plans prepared for a 9-story apartment house at 109th St. and Amsterdam Ave. The estimated cost is $150,000. Gatlan Ajello, 1 West 34th St., is Arch.

Plans have been completed by Gronenberg & Leuchtag, Archs., 7 West 22d St., for a 5-story tenement at 111th St., west of Fifth Ave. The cost is $65,000. Samuel Roseff, 11 Park Ave., Mt. Vernon, N. Y., is the owner.

Sub-contracts will soon be awarded by the Mansad Construction Co., 2228 Broadway, for the 11-story apartment house at Madison Ave. and 83d St. The cost will be about $450,000. Plans by Schwartz & Gross, Archs., 347 Fifth Ave.

The Carnegie Construction Co., 420 West 119th St., is receiving bids for the construction of a 10-story apartment house at Amsterdam Ave. and 119th St. The cost is $450,000. Plans were prepared by Schwartz & Gross, Archs., 347 Fifth Ave.

Sub-contracts will soon be awarded by the Bloomingdale Construction Co., 526 West 111th St., for the construction of an 8-story apartment house at 104th St., east of West End Ave. The cost is about $200,000. Plans were prepared by Schwartz & Gross, Archs., 347 Fifth Ave.

Newark, N. J.—Bids have been received for the construction of the proposed Normal and Training School at Broad and Belleville Sts. and Fourth Ave. The lowest general bid received, in which provision is supposed to have been made for the entire work, is that of the Herman C. Schneider Construction Co. at $242,111.

Jersey City, N. J.—Bids were received Nov. 22 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C. for the construction of a U. S. post-office building at Jersey City. Bids are on granite exterior with (a) limestone or (b) sandstone in the lobby: William J. Moran, Inc., Brooklyn, N. Y., (a) $491,625, (b) $492,925; Joseph Jeukes & Sons, Jersey City, N. J., (a) $479,869; J. H. & F. W. Cane, New York, (a) $458,982, (b) same; King Lumber Co., Charlottesville, Va., (a) $518,000, (b) $519,000; Charles Willis, New York, (a) $500,000, (b) same; F. K. Nesbit & Co. Inc., (a) $486,403, (b) $488,903; Alfred Beinhauer, New York, (a) $461,561; Charles H. Peckworth, New York, (a) $453,945; $451,945 using Maine granite; $473,945 using Vermont gray granite; Hedden Construction Co., New York, (a) $441,275, (b) $442,000; George A. Fuller Co., New York, (a) $464,500, (b) $465,500; John T. Brady & Co., New York, (a) $443,840, (b) $445,740; Wills & Marvin Co., New York, (a) $457,789, (b) $459,789. Noted Oct. 19.

Philadelphia, Pa.—Bids will be received by Joseph S. Neff, M. D., Dept. Pub. Health and Charities, for the construction of a building for the feebleminded. Plans by Phillip H. Johnson. Arch., 1824 Land Title Bldg.

Pittsburgh, Pa.—The New Kensington Loyal Order of Moose has purchased a site and will construct a building. D. A. Crone, Pittsburgh, has been retained as architect.

The Board of Directors of the Allegheny County Workhouse has decided to enlarge the workhouse by adding 80 more cells.

Philadelphia, Pa.—A 7-story building will be constructed at Seventh and Locust Sts. by Cramp & Co. It will be occupied by the W. B. Saunders Publishing Co., publishers of medical textbooks.

A new school will be erected here in the Middle Ward, Lansford Borough.

Pittsburgh, Pa.—Plans have been completed for the School of Design to be erected at the Carnegie Technical Schools. Probable cost, $800,000. Plans have been prepared by Henry Hornbostel, 63 William St., New York.

✦Shamokin, Pa.—A contract for the erection of a 2-story cement block building on Independence St., has been awarded to the EAST END LUMBER CO. The dimensions are 160 x 50 ft. Erb & Zaring are the owners.

Wilkes-Barre, Pa.—The officials of the Leader Chemical Co. have completed preparations for the construction of a 4-story brick and stone structure on South Main St. between Ross and Academy Sts.

✦Cumberland, Md.—The contract for the proposed station on the Connellsville extension has been awarded by the Western Maryland Ry. to the MEYERSDALE PLANING MILL CO.

Baltimore, Md.—The United Rys. Co. has purchased from the Safe Deposit & Trust Co. trustees a tract of land on the Harford road, adjoining Weber's Park, on which will be erected a car barn and station. According to tentative plans the proposed building is to be of brick, with stone trimmings, slag roof and concrete foundation. It will be fireproof and cost about $100,000. When the new barn is completed the old one near North Ave. will be demolished.

Charles M. Anderson, Arch., 324 North Charles St., Baltimore, has been commissioned by George W. Hide to prepare plans for a lunch and dining room building at Camden and Howard Sts. The cost will be about $45,000.

✦A contract has been awarded to A. KNELL, JR., 315 St. Paul St., Baltimore, for the construction of a Catholic Church at Liberty Road near Montgomery Ave. Plans were prepared by Robert C. Ullrich, Arch., 422 Law Bldg., Baltimore.

Washington, D. C.—The Washington Hebrew Temple has purchased a site on which to erect a temple. The cost will be about $175,000.

✦James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for construction of the post-office at Washington, D. C., to JOHN GILL & SONS, Cleveland, Ohio, New York Office, 12 West 31st St., New York, N. Y., at $2,187,000, using Maine granite. Noted Oct. 19.

Portsmouth, Va.—Bids will be received until 8 p. m., Dec. 5, by E. R. Brinkley, Chn. of School Com., for erecting a school building here.

Richmond, Va.—Bids will be received by J. T. Ellyson, Mutual Bldg., Richmond, until noon, Dec. 18, for the construction of a building to be known as the Confederate Memorial Institute.

✦The Richmond Building Corporation, 1107 East Main St., will construct an addition to the building at 1110 East Main St. The contract is held by JOHN T. WILSON.

The Baptist Home for Aged Women will erect a $50,000 building, 90 x 100 ft. Plans have been prepared by Carneal & Johnson, National Bank Bldg. of Virginia, Richmond.

Macon, Ga.—A Masonic Home will be erected here at a cost of $250,000. T. J. Carlin is Chn. Bldg. Comn.

Brooksville, Fla.—Bids will be received until Dec. 4 by the County Clerk for constructing a courthouse. Plans were prepared by William A. Edwards, Arch., Candler Bldg., Atlanta, Ga.

New Orleans, La.—It is reported that an addition will be erected to the Hotel Montelone. The addition will contain 300 rooms.

Hamilton, Ohio.—Plans are being prepared by William D. Linglin, for the construction of a school.

✦Bellefontaine, Ohio.—A contract for the construction of a school, has been awarded by the School Board to JOHN A. SUGNUL.

Cincinnati, Ohio.—Plans are being prepared for the construction of a $75,000 auditorium at Longview Hospital for the Insane.

Cleveland, Ohio.—Bids will be received until Dec. 5 by the Board of City Hall Commissioners, for furnishing material and erecting superstructure for the city hall.

Columbus, Ohio.—Bids will be received until Dec. 19 by the Board of Trustees, Ohio State Archeological and Historical Society, Ohio State University, Columbus, for constructing a museum and library building. Joseph N. Bradford is Univ. Arch.

Dayton, Ohio.—The City Realty Co. has filed plans for the construction of a 19-story office building on Main St. The estimated cost is $400,000.

Middleport, Ohio.—Bids will be received until Dec. 4 for constructing a Carnegie Library on Third near Mills St.

Wilmington, Ohio.—Bids will be received until Dec. 8 by the Village Council for erecting the Samuel Halken Library Building.

Tiffin, Ohio.—A school building will be erected here, it is reported, at the National Orphans' Home.

Youngstown, Ohio.—The Official Board of the Central Christian Congregation has passed a resolution authorizing the enlarging and improving of the present church building.

Evansville, Ind.—The Ohio Valley Contract Co. announces that it will build two large warehouses for storing material.

Indianapolis, Ind.—W. J. Holliday & Co. has purchased a corner site at Missouri and West Sts. on which to build a steel frame warehouse 80x172 ft. A second warehouse will be built after the first is completed.

New Castle, Ind.—The Rose City Hospital Association has incorporated to build and operate a hospital. J. D. Smith, W. H. Elliott and George M. Barnard, are Dirs.

Laporte, Ind.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Jan. 4, for the construction, complete, (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and lighting fixtures), of a one-story and basement building of approximately 5,100 square feet ground area, brick faced, with stone and terra-cotta trim, for the U. S. post office at Laporte. Drawings and specifications may be obtained from the custodian of site at Laporte, or at the office of the Supervising Architect.

✦Ann Arbor, Mich.—The Board of Regents of the University of Michigan, Ann Arbor, has awarded the general contract for the Hill Memorial building, to JAMES L. STEWART, Pittsburgh, Pa., at $203,000. This does not include the plumbing and electric wiring and elevator contracts.

✦Detroit, Mich.—Spier, Rohers & Gehrke, Chamber of Commerce Bldg., have awarded the following contracts for the 6-story and basement store building, for A. Fosselius & Co., 414 Gratiot Ave.: Structural iron work, to DONOVAN WIRE & IRON WORKS, Toledo, Ohio; masonry to OTTO MISCH, Home Bank Bldg., Detroit. Cost, about $50,000.

Flint, Mich.—The Board of Education of Flint, contemplates erecting a brick and stone fireproof school building. Cost about $60,000.

✦Flint, Mich.—Malcomson & Higgenbotham, Moffat Bldg., Detroit, have awarded the contract to M. A. MAHONEY, Lansing, Mich., for the construction of the new nurses home and hospital for the Hurley Hospital. The cost will be about $45,000.

Detroit, Mich.—The Dodge Bros. have purchased a site from the Riverside Storage & Cartage Co. at Fort St., near Twelfth St., and will construct a 5-story building. The cost will be about $200,000.

✦Webberville, Mich.—The following contracts have been awarded by White & Butterworth, City National Bank Bldg., for the construction of a 1-story basement school building general contract to H. M. SILSBY, Webberville; masonry to M. A. MAHONEY, Webberville; steam heating to SHIELDS & LEADY, Lansing.

Champaign, Ill.—The Illinois Traction Co., H. E. Chubbuck, Gen. Mgr., is considering plans for a 3-story depot and office building.

✦The contract has been awarded to ENGLISH BROS., Champaign, for the construction of the Women's Building at the University of Illinois. The cost is $81,336.

Chicago, Ill.—A theatre and 16-story office building will be constructed by Charles P. Taft on the present site of the La Salle Opera House. The cost will be about $1,500,000.

Milwaukee, Wis.—The Directors of the Merchants & Manufacturers' Bank have decided to erect a 2-story bank building on West Water St., as originally planned instead of an 8-story structure which was considered.

A 12-story steel store and office building will be constructed at Grand Ave. and Second St. by C. J. Stumpf. The building will be of modern construction with facades consisting almost entirely of glass.

Milwaukee, Wis.—A meeting hall will be erected by the Milwaukee Knights of Columbus on 15th St. and Grand Ave. The building will be two stories high, of stone construction, and will cost between $60,000 and $70,000.

Mason City, Iowa.—Plans have been prepared for the construction of an opera house on the site of the Wilson theatre, which was destroyed by fire a few weeks ago. The cost will be about $85,000.

***Fort Snelling, Minn.**—Bids will be received until Dec. 2, by the Constructing Quartermaster for installing plumbing fixtures in Civilian Employees' quarters.

Medford, Minn.—Bids will be received until Dec. 6 by G. B. Cory, Secy. Consolidated School Dist. No. 5, for the construction of a brick school. Plans by Alban & Hausler, Chamber of Commerce Bldg., St. Paul.

Curtis, Neb.—Burd F. Miller, State Arch., Brandeis Theatre Bldg., is receiving bids for the construction of the State Agriculture School. The building will be two stories high and will cost $75,000.

Helena, Mont.—About $300,000 has been subscribed for the construction of a hotel. Address Col. Thomas Cruse.

Kansas City, Mo.—A site has been selected by the Board of Education at Abington Boulevard, Chelsea, Thompson and Amart Aves., and will construct a high school. The cost is about $300,000.

Kansas City, Mo.—The Board of Directors of the Y. M. C. A., Kansas City, have retained Rose & Peterson, Archs., to prepare plans and specifications for the construction of a Y. M. C. A. building. The cost will be about $200,000.

Maryville, Mo.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Jan. 3, for the construction, complete, including plumbing, gas piping, heating apparatus, electric conduits and wiring, and lighting fixtures, of the U. S. post office at Maryville. The building is one story and basement and has a ground area of approximately 4,900 sq. ft.; fireproof first floor; stone facing, and tin roof. Drawing and specifications may be obtained from the Custodian of site at Maryville, or at the office of the Supervising Architect.

✦Houston, Tex.—The Board of Directors of the Agricultural and Mechanical College have awarded a contract to the TEXAS BUILDING CO., Fort Worth, at $119,500 for the construction of the engineering building and dormitory to be built at Bryan.

Denver, Colo.—Plans are being prepared for the construction of a 4-story, fireproof hotel at Glenarm and 16th Sts., for Walter F. Rook.

Tacoma, Wash.—Bids will be received by the County Board of Commissioners at Tacoma, until Dec. 2, for alteration and addition to the Pierce County Hospital.

San Francisco, Cal.—The Board of Trustees of Leland Stanford University have taken out a permit for the construction of a 3-story class A library building at Sacramento and Webster Sts. The cost will be about $91,000.

✦San Francisco, Cal.—The contract has been awarded to J. D. HANNAH, Monadnock Bldg., for the addition of five stories to the two-story office building at Fifth and Market Sts. Emma Ferris is the owner. The cost will be about $55,000.

WATER SUPPLY—IRRIGATION.

(✦Denotes a contract awarded.)

Worcester, Mass.—The City Council has voted to carry on the development of the Asuebumskit water system. Estimated cost, $100,000.

✦Boston, Mass.—The contract for laying 1,100 ft. of 8, 10 and 12-in. water pipe in various streets, has been awarded to MICHELE DE SISTO. Louis K. Rourke is Comr. Pub. Wks.

Boston, Mass.—Bids will be received by the Public Works Department until Dec. 1, for laying 2,500 ft. of 8 and 10-in. pipe in various streets. Louis K. Rourke is Comr.

Bridgeport, Conn.—The Bridgeport Hydraulic Co. is planning the construction of a new reservoir which will double the present supply for the city.

✦*Kings Park, N. Y.—We are officially advised that the contract has been awarded by the State Commission in Lunacy, Albany, N. Y., to W. B. ARMSTRONG, Albany, for three water-tube boilers for the Kings Park State Hospital, Kings Park, at $28,-646.

New York, N. Y.—Bids will be received until Dec. 4 by M. Gray Zalinski, Deputy Q. M. Gen., U. S. A., Army Bldg., New York, for furnishing one vertical simplex pump.

New York, N. Y.—The Board of Estimate and Apportionment of New York has approved an issue of $160,-000 of corporate stock for furnishing and laying a 30-in. distributing main and appurtenances in and along Fresh Meadow Road and Union Ave. to connect the distribution systems of the First and Third Wards, Boro. Queens.

Lyons, N. Y.—The Rochester, Syracuse & Eastern R. R. Co., will construct a new pumping plant here. Plans are being prepared by R. A. Dyer, jr., Asst. Gen. Mgr., Syracuse, N. Y. Noted Nov. 2.

Argyle, N. Y.—The town has voted to issue $12,500 of bonds for the installation of a water supply system.

Yonkers, N. Y.—We are officially advised that plans and specifications are being prepared by Allen Hazen, Consult. Engr., 103 Park Ave., New York, in cooperation with S. L. Cooper, City Engr., and Edward Peene, Supt. W. Wks., for a 100,000,000-gal. pump and two filter beds. Noted Nov. 23.

Ambridge, Pa.—Bids will be received until 7 p. m., Dec. 4, by C. R. Doyle, Secy. Boro. Council, for the construction of a municipal water plant. Plans and specifications are on file at the office of J. P. Leaf, Engr., Rochester, Pa.

Dawson, Pa.—The citizens have voted in favor of issuing $8,000 of bonds for improvements to the water supply system and fire service.

Erie, Pa.—The city has engaged Chester & Fleming, Hydraulic Engrs., Union Bank Bldg., Pittsburg, Pa., to prepare plans and specifications for a steel stand pipe, 30 ft. in diameter and 90 ft. high, to supply the high service district of Erie.

South Easton (Easton post-office), **Pa.**—The South Easton Water Co. will build an additional reservoir, with a capacity of 4,000,000 gals. for the purpose of increasing the fire-pressure service.

***Wilmington, Del.**—Bids will be received until 10.30 a. m., Dec. 11, by the Water Department for constructing and erecting on foundations built by the city, water turbines and vertical triplex single-acting power pumps, for Brandywine Pumping Station, consisting of two units, discharging 4,000,000 and 2,000,000 gals. respectively; with water turbines discharging 80 and 40,-000,000 gals. under 19-ft. head, at 78 r.p.m., respectively. Plans and specifications may be seen at the office of John A. Kienle, Ch. Engr. Water Dept., 16th and French Sts., Wilmington. Advertised last week.

Baltimore, Md.—Ezra B. Whitman, Engr., 2432 North Charles St., Baltimore, is revising plans for the Water Department for the dam on Gun Powder River and bids for construction will soon be asked. The dam will be either of reinforced concrete or solid. Estimated cost, $500,000.

Wheeling, W. Va.—The contract will be awarded soon by the City & Elm Grove R. R. Co., for reconstructing its suburban water system. The work will consist of constructing a 3,000,000-gal. pumping station, and laying four miles of pipe.

✦Honea Path, S. C.—The Board of Public Works has awarded the contract to COTHRAN & COTHRAN, Greenwood, S. C., for the construction of the water-works system and electric light plant. Estimated cost, $50,-000.

Atlanta, Ga.—The city is considering the installation of two new pumps for the River Station and Hemphill Station. W. Z. Smith is Gen. Mgr. W. Wks.

Brownwood, Ga.—Bids will be received by the city about Dec. 1 for the construction of the proposed water-works system. Estimated cost, $10,-000. R. J. Glass is City Clk. Noted July 20.

✦Pensacola, Fla.—The contract has been awarded to CHARLES BORN, Pensacola, Fla., by the Water and Gas Committee of the City Council for laying 26,000 ft. of water-mains at 58 cts. per lin. ft., and for furnishing all parts, including fire hydrants, at $24.50 each. Bids were opened on Nov. 15.

✦Port Tampa, Fla.—The city has awarded the contract to CHESTER A. MCFARLAND, Tampa., Fla., for laying 6 and 8-in. water-mains.

Union Springs, Ala.—The city has voted to issue $5,000 of bonds for the erection of a water tower. Noted under Sewerage, on Oct. 19.

Hammond, La.—The city is considering an issue of $10,000 of bonds for extensions to the water-works system.

Morgan City, La.—Xavier A. Kramer, Consult. Engr., Magnolia, Miss., is preparing plans for the installation of a water-works and sewer system here. Bonds for $80,000 have been voted. Noted on Nov. 23.

Cleveland, Ohio.—Bids will be received until Dec. 6 by A. B. Lea, Dir. Pub. Ser., for all labor and material necessary for constructing the West Side water tunnel.

Worthington, Ohio.—The citizens have voted to issue $20,000 of bonds for the installation of a water-works system. Burgess & Long are Engrs., Savings and Trust Bldg., Columbus, Ohio. Erroneously noted last week as Worthington, Okla.

✦Cincinnati, Ohio.—The Director of Public Service has awarded the contract for furnishing c.-i. pipe for the Water-works Department to the U. S. CAST IRON PIPE & FOUNDRY CO., Cincinnati, at $20,595.

Hartford City, Ind.—The City Council is preparing to ask for bids for remodeling the local plant or the construction and equipment of a modern plant. C. E. Sweigart, is Mayor.

Ionia, Mich.—The City Council has authorized the Water Board to sink 18 additional wells. Estimated cost, from $10,000 to $15,000.

Chicago, Ill.—Bids will be received until Dec. 2 and not Dec. 20 by L. E. McGann, Comr. Pub. Wks., for furnishing and installing three vertical triplex, single-acting pumps, driven by direct-connected, vertical triple-expansion condensing engines, with auxiliaries, appurtenances and accessories, at the Lake View Pumping Station, Montrose Boulevard and Clarendon Ave.

Cornell, Ill.—All bids opened Oct. 16 by the city for the construction of water-works have been rejected. J. I. McVay is Chn. W. Wks. Com. Noted Oct. 5.

Des Plaines, Ill.—Bids will be received by the Village Clerk until Dec. 1 for laying 3,460 lin. ft. of 6-in. water-mains, with hydrants and valves. W. C. Emerson, 1118 Chamber of Commerce Bldg., Chicago, Ill. is Engr.

✦Springfield, Ill.—We are officially advised that the city has awarded the contract to W. M. ALLEN SON & CO., Peoria, Ill., for constructing a 2-story pumping building 123 x 149 ft., including a pump pit 50 x 90 x 20 ft., at $47,-866. Bids were opened Nov. 20.

Durand, Wis.—The City Council has engaged S. G. Gilman to prepare plans for and superintend the construction of the proposed water-works system.

✦Bayard, Iowa.—We are officially advised that the contract has been awarded by the city to the DES MOINES BRIDGE & IRON CO., Des Moines, Iowa, for constructing the water system here, at about $10,000. Noted Nov. 23.

Jefferson, Iowa.—The City Council has ordered 17 blocks of watermains laid.

Glenwood, Minn.—The Village Council is considering an issue of $15,000 of bonds for extending the watermains.

Cambridge, Minn.—The City Council has decided to ask for bids for furnishing water meters.

✦Hill City, Kan.—The contract has been awarded to T. C. BROOKS & SON, Jackson, Mich., for the construction of water-works and an electric light plant, at about $50,000. Worley & Black are Engrs., Reliance Bldg., Kansas City, Mo. Noted Aug. 31.

Leavenworth, Kan.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., have estimated the cost of constructing the pumping station with filter plant, mains, hydrants, municipal lighting plant and power house, at $800,000. Noted on Nov. 23.

Falls City, Neb.—Bids will be received by John Wiltse, City Clk., until Dec. 11 for furnishing material and laying 14,000 ft. of 4-in. water-mains, including gate valves and hydrants. Noted Nov. 9 and 23.

Hastings, Neb.—Bids will be received by the City Council until Dec. 11 for a 3,000,000-gal. pump.

Benkelman, Neb.—The village has received plans for the installation of a water-works system. Estimated cost, about $12,000. R. D. Druliner is Village Atty.

Omaha, Neb.—The City Council has granted permission to the Union Stock Yards and allied packing houses to lay and maintain a line of water pipe from the reservoirs at Twelfth and M Sts., to the packing district.

✦Washburn, N. Dak.—The contract has been awarded by the city to the GENERAL ENGINEERING CO., Fargo, N. Dak., for reconstructing the water-works system.

Kalispell, Mont.—The city has decided to purchase the water plant of the Northern Idaho & Montana Power Co.

Sedalia, Mo.—The town having plans prepared by E. L. S[illegible]t. Lawrence, Kan., for the install[illegible]on of a water system.

✦Russellville, Ark.—We[illegible] officially advised that bids we[illegible] received as follows Nov. 20 by t[illegible] Russellville Water Co., Russellvill[illegible] for constructing the proposed wa[illegible] system: TOWKAWA CONSTRUCT[illegible] CO., Kansas City, Mo., $38,893[illegible] awarded contract). J. A. Pringle, M[illegible]gomery, Mo., $39,819; T. C. Brooks &[illegible]n, Jackson, Mich., $40,071; W. F[illegible] Jack-son Co., Springfield, Mo., $40,11[illegible] Summer rey & Downer, Hugo, Col[illegible] Humph-Cook Construction Co., D[illegible] $40,594; Iowa, $40,703. The contract[illegible] Moines, pipe was awarded to WY[illegible] wood-SON CO., for c. i. pipe, to th[illegible]OFF & CAN CAST IRON PIPE CO[illegible]AMERI-ritt Bldg., Kansas City, Mo[illegible] Scar-hydrants and valves, to [illegible]or fire VALVE CO.; for pumps, to [illegible]IOWA & SKINNER MACHINERY [illegible]EEVES for motors, to the WESTIN[illegible]HOUSE ELECTRIC & MANUFACTU[illegible]NG CO. The Fuller-Const. Co., is Eng[illegible] Chem-ical Bldg., St. Louis, Mo.

Fort Smith, Ark.—The proposed additions to the water system will cost $100,000. The work will include the construction of a 3,000,000-gal. settling reservoir; a 3,000,000-gal. filtration plant; and the erection of a dam across the Potean River. M. H. Reed is City Engr. Noted on Nov. 23.

Gravette, Ark.—The city has decided to issue $25,000 of bonds for the installation of a water-works system and electric-light plant.

Saint Jo, Tex.—Plans have been prepared for the installation of a deep-well water system here. Estimated cost, $10,000. Noted on Oct. 26.

Anahuac, Tex.—The Trinity River Irrigation District, recently created, has been organized by the election of F. M. Hamilton, as Pres. and John Wooten as Secy. Engineers have finished their surveys and estimate that the proposed fresh water reservoir and irrigation system will cost about $125,000. Noted Nov. 16.

Big Spring, Tex.—F. W. Abney, Charleston, W. Va., will construct a system of irrigation near here to cost about $60,000.

Brownwood, Tex.—The pumping station of the water-works plant here which was recently destroyed by fire will be rebuilt at a cost of about $10,000.

El Paso, Tex.—The Kerr Land Co., Minneapolis, Minn., will construct an irrigation system and develop 25,000 acres of land in El Paso County. The company will also install a number of pumping plants upon shallow wells.

Bennington, Okla.—Bids will be received by the Board of Trustees until 8 p. m., Dec. 15, for furnishing all labor and materials for the construction of water-works, including pumping equipment, tank and tower, about 3,300 ft., of 6-in. c. i. Class A pipe, 2,400 ft. 6-in. c. i. Class B pipe, 3,000 ft. 4-in. c. i. Class A pipe, 14 hydrants and all necessary specials. Plans, specifications, proposal forms, etc., may be had from Jesse Sipes, Town Clk., or from Nagel & Peterson, Engrs., Muskogee, Okla.

Noble, Okla.—The town has voted to issue $8,000 of bonds for the installation of a water-works system.

✦*Pryor Creek, Okla.—Bids were received as follows, Nov. 20, by the city for c.-i. water pipe: AMERICAN CAST-IRON PIPE CO., 718 Scarritt Bldg., Kansas City, Mo., 896 tons of 10-in. Class B; 178 tons of 10-in., Class C; 33 tons of 4-in., Class B; 25 tons of 6-in. Class B; 12 tons of 8-in., Class B, all at $26.50 per ton; total, $30,316 (awarded contract); U. S. Cast Iron Pipe & Foundry Co., 10-in., Class B, $26.85; 10-in., Class C, $26.60; 4-in. Class B, $28.75; 6-in., Class B, $27; 8-in., Class B, $27; total, $30,740. The contract for lead and yarn was awarded to the CRANE CO., Chicago, Ill., as follows: 50,000 lbs. pitcher lead, at $4.82 per 100 lbs.; 1,650 lbs. of yarn, at 4 cts. per lb.; total, $2,476.

A contract will be awarded by the city about Dec. 20 for hydrants, valves, pumps, boilers, etc., for water-works extensions. The city will purchase all materials and pay for all labor. The Benham Engineering Co., Oklahoma City, will supervise the construction work.

✦Braggs, Okla.—The Board of Town Trustees on Nov. 14, awarded the contract for the construction of a system of water-works to the N. S. SHERMAN MACHINE & IRON WORKS, Oklahoma City, Okla., at $17,762. Other bids were as follows: J. S. Terry Construction Co., Poteau, Okla., $18,425; Oklahoma Engineering Co., Oklahoma City, $19,440; Hoff & Williams, Muskogee, $20,176; Winters & Dove, First National Bank Bldg., Fort Smith, Ark., are Engrs.

Fort Logan, Colo.—Bids will be received until 10.10 a. m., Dec. 20, by Capt. T. T. Frissell, Constr. Q. M., U. S. A., Fort Logan, for the construction of a new water distribution system. Specifications are on file at the office of Engineering News, New York.

Las Cruces, N. Mex.—Bids will be received by the Town Board of Trustees until 2 p. m., Dec. 15, for the construction of water and sewer systems. Plans may be seen at the offices of R. L. Young, Chn. and Town Clk., and E. T. Archer & Co., Engrs., New England Bldg., Kansas City, Mo. Noted Aug. 24.

Scottsdale, Ariz.—Bids will be received until 2 p. m., Dec. 14, by the Commissioner of Indian Affairs, Dept. of the Interior, Washington, D. C., for a pump-house, and water and sewer systems at Salt River Indian School, Ariz. For further information apply to the Superintendent, Camp McDowell, Indian School, Scottsdale.

Boise, Idaho.—Bids will be received until noon Dec. 1, by the U. S. Reclamation Service, Boise, for dragline excavators. The engines are to be made by the American Hoist & Derrick Co. or Clyde Engine Works or equal, machines to be complete with cables, fibers, buckets, etc., ready for operation and of a type capable of swinging through an arch of 360°. Bidders will be required to furnish detailed specifications and descriptions of machines bid upon and to indicate quantity and size of cable and size and make of buckets, engines and boilers to be furnished. Prices on second-hand equipment will be considered, in which case the bidder will state the length of time such equipment has been in use and the place where the equipment may be inspected. Item 1 includes a drag line excavator not less than 50 HP., equipped with and capable of handling a 3½-yd. drag-line bucket; Item 2 includes a drag-line excavator not less than 30 HP., equipped with and capable of handling a 2½-yd. drag-line bucket. George E. Moore is Pur. Agt.

†Boise, Idaho.—The contract has been awarded to SLICK BROS. CO., Boise, for installing a pumping plant and for the construction of 25 miles of canal for Kuhn Bros.

Pocatello, Idaho.—The citizens have voted to issue $270,000 of bonds for the installation of a municipal water system. J. P. Congdon is City Engr. Noted Oct. 5.

Salt Lake City, Utah.—The city is considering the construction of a large storage reservoir in Little Cottonwood Canyon. G. F. McGonagle is City Engr.

Granger, Wash.—The City Council has accepted plans and specifications prepared by the City Engineer for the construction of a water-works system. A reservoir will be built on Snipe's Mountain.

Grandview, Wash.—The Council is considering a bond issue of $18,000 for the installation of a water-works system.

†Wapato, Wash.—The City Council has awarded the contract to E. H. PATTERSON for sinking a well as a source of supply for the municipal water system.

Wapato, Wash.—Bids will be received by the Town Clerk until 8 p. m., Dec. 13, for the construction of a pumping plant for the municipal water system, and for furnishing all material and labor necessary for installing the plant, the materials to be furnished and construction and installation to be in accordance with the plans and specifications prepared by the Town Engineer. The pumping plant will consist of a triplex pump, motor, gasoline engine, air compressor, pressure tank and elevated storage tank and building.

†Chelan, Wash.—The contract has been awarded to GRANT SMITH & CO., Henry Bldg., Seattle, for the construction of a flume on the extension of the project of the Lake Chelan Land Co. here, at about $103,000. The flume will be built from Mitchell to Grade Creek and the work includes the logging and milling of 3,000,000 ft. of lumber for flume construction, and the completion of a wagon road. Noted April 27.

Prosser, Wash.—Bids will be asked after Dec. 1 by the city, for the construction of the proposed domestic water system. L. C. Waller, Prosser, is Engr.

†Haines, Ore.—The contract has been awarded to G. H. SUTHERLAND, Walla Walla, Wash., for the construction of the water-works system here. Noted May 4.

†Owyhee, Ore.—The Kingman Colony Irrigation Co., Owyhee, has awarded the contract to JAMES A. GREEN & CO., INC., 226 South La Salle St., Chicago, Ill., and Boise, Idaho, for irrigating 10,000 acres located in eastern Oregon, ten miles south of Nyssa.

Newport, Ore.—We are officially advised that the city has engaged Louis C. Kelsey, Consult. Engr., Selling Bldg., Portland, Ore., to design and supervise the construction of a new pumping plant and water-works improvements. Estimated cost, $20,000.

Portland, Ore.—Bids will be received by the Water Board, until 4 p. m., Dec. 12, for furnishing and delivering the following approximate quantities of c. i. water pipe and special castings: 500 length of 20-in., estimated weight, 520 tons; 2,200 lengths of 20-in., 1,640 tons; 5,700 lengths of 12-in., 2,760 tons; 21,500 lengths of 8-in., 6,190 tons; 4,700 lengths of 6-in., 890 tons; total weight, 12,000 tons; standard special castings for c. i. pipe, 5,000 tons. Specifications and form of proposal can be obtained at the office of D. D. Clarke, Engr. Water Bd. Bidders msut state the price of pipe per ton of 2,000 lbs., and the price of special castings per lb., all delivered f. o. b. cars or docks, Portland, and must also state the date when delivery of pipe and specials will commence, the rate of delivery per month and date when entire delivery will be completed.

Hood River, Ore.—The City Council has authorized an issue of $37,250 of bonds for the installation of a water-works system.

Portland, Ore.—The City Council has passed an ordinance providing for the purchase of the Woodstock water plant from D. D. Fleck, for $20,716. The purchase includes only the mains. The Water Department will connect the mains of this system with the Bull Run mains and the district will be supplied with Bull Run water.

Redlands, Cal.—F. E. Trask, Consult. Engr., Homer Laughlin Bldg., Los Angeles, Cal., has been retained by the Water Commission to assist George S. Hinckley, City Engr., prepare plans for the installation of a municipal water system.

Watsonville, Cal.—The city is considering the construction of a pumping plant.

Fort Mason (San Francisco post-office), **Cal.**—Bids will be received until 11 a. m., Dec. 15, by Lt. Col. George McK. Williamson, Deputy Q. M. Gen., U. S. A., Fort Mason, for constructing two additional filters in the pumping station at the Presidio of San Francisco.

†Los Angeles, Cal.—Bids were received Nov. 17 by the Board of Public Works for furnishing steel and rivets for five riveted steel siphons under Specifications No. 268. The contract has been awarded to the RITER-CONLEY MFG. CO., 55 Water St., Pittsburgh, Pa., at the following prices: Item (1), single-plate construction, $17,671; 459 tons; f. o. b. cars at Leetsdale, Pa.; 50 tons within 90 days; 300 tons every month; complete delivery within 4½ months; Item (2), single-plate construction, $48,500; 1,655 tons; f. o. b. Leetesdale; 100 tons; within 60 days; 300 tons every month; complete delivery within 7½ mos.; Item (3), single-plate construction, $18,211; 654 tons; f. o. b. Leetsdale; 200 tons within 60 days; 200 tons every month; complete delivery within 3½ mos.; Item (4), single-plate construction, $95,317; 3,433 tons; f. o. b. Leetsdale; 500 tons within 60 days; 800 tons every month; complete delivery within six mos.; Item (5), single-plate construction, $116,333; 3,352 tons; f. o. b. Leetsdale; 300 tons within 60 days; 500 tons every month; complete delivery within eight months. Lump sum bids: Single-plate construction, $275,145; 9,555 tons; f. o. b. Leetsdale; 500 tons within 60 days; 1,500 tons every month; complete delivery within 8½ months.

Madras, Cal.—The citizens on Nov. 20 voted in favor of issuing $10,000 of bonds for the construction of a water-works system.

***Quebec, Que.**—Bids will be received until noon, Dec. 20, by the City Clerk for the following: (1) 44 and 40-in. c.-i. pipes, specials, valves, etc.; (2) 44 and 40-in. steel pipes, specials, valves, etc.; (3) loading and transporting from railway depot or wharves, Quebec, all the pipes, valves, etc; (4) trenching, filling, laying and jointing the whole pipe line; (5) for carrying out all the work comprised in Nos. 1, 3 and 4; (6) for carrying out all the work comprised in Nos. 2, 3 and 4. The pipes, etc., shall be delivered free on cars, or on the wharves, in the city. Specifications and forms of proposal can be obtained at the office of T. A. Jardine Forrester, Consult. Engr., W.-Wks., City Hall, Quebec, during the hours of 9 a. m. and 4 p. m. For details see advertisement in this issue.

Galt, Ont.—Bids will be received by the Galt Water Commission until noon, Dec. 1, for the manufacture, delivery and erection in the pumping station at Galt, of either turbine or triplex pump, to be driven by an electric motor capable of pumping 1,500,000 gals. of water daily against a head of 242 ft. with a lift of from five to eleven feet. Bidders must submit their own plans and specifications.

Port Arthur, Ont.—The City Engineer is preparing plans for the construction of a new pump-house and intake pipe for the water supply system.

Moose Jaw, Sask.—Bids will be received by W. F. Heal, City Clk., until Dec. 12, for supplying about 100,000 lin. ft. of 18-in. steel water pipe. Specifications and all information may be obtained from the City Clerk or at the office of Walter J. Francis & Co., Consulting Engrs., Montreal, Que.

Vancouver, B. C.—Bids will be received by William McQueen, City Clk., until 4 p. m., Dec. 27, for the following connection with Seymour Creek extensions: (1) For the supply of 24,000 ft. of 24-in. steel pipe for the Seymour pipe line extension; (2) for the supply of valves for the new Seymour Creek pipe-line extension; (3) for the excavation and backfilling of a pipe trench along Seymour Creek, suitable for the construction of a 36-in. steel riveted pipe. Plans and specifications may be seen at the office of Hermon & Burwell, Inns of Court Bldg., and at the office of the City Engineer.

SEWERAGE.

(*Denotes that this work is advertised in Engineering News.)

Fitchburg, Mass.—Bids will soon be received for the construction of two sections of the main trunk sewer. Section 1 includes about 5,000 ft. of 30-in. c.-i. pipe and Section 2 about 600 ft. of 48-in. reinforced concrete sewer. David A. Hartwell is Ch. Engr.

Waterbury, Conn.—Bids will be received by the Board of Public Works until 8 p. m., Dec. 5, for the construction of sewers in Euclid and Randolph Aves., Tower Rd., South Leonard and Webb Sts. R. A. Cairns, is City Engr.

Bridgeport, Conn.—The City Council has voted to adopt the plans of Rudolph Hering, New York, N. Y., for the construction of two trunk sewers, one in the Brooklawn district, and one on the East End at a cost of about $80,000.

Yonkers, N. Y.—Andrew P. Hartmann, Engr. of the Bronx Valley Sewer Commission, has been directed to prepare plans for extending the outlet of the sewer, 150 ft. out into the Hudson River, in accordance with the mandate of the State Board of Health. The work is estimated to cost $70,000. The construction of this 150-ft. outlet will be such that it can later be extended out to the bulkhead line, 412 ft. from shore. Bids for the work will soon be asked.

†Rochester, N. Y.—Sewer contracts have been awarded by the Board of Contracts as follows: To W. H. SOURS, at $42,502 for the East Side Trunk Sewer overflow; and to H. N. COWLES at $36,762, for the Blossom Road Storm Sewer.

Buffalo, N. Y.—The City Council has ordered the construction of a 10-in. tile sewer in Congress St.

Oneida, N. Y.—Plans and specifications for a sewage disposal plant will be prepared at once. Construction will begin in the spring.

McKeesport, Pa.—Bids will be received by the City Comptroller until Dec. 27, for constructing sewers on Franklin and on Archer Aves. Plans are on file with the City Engineer.

Washington, D. C.—The city is considering the extension of the east side intercepter along Bunker Hill Road, and the construction of the outlet section of the Petworth trunk sewer. The estimated cost is $50,000.

Elkton, Va.—The city and the Norfolk & Western R. R. will install a sewer system to empty into the Shenandoah River.

Union Springs, Ala.—The city has voted a bond issue of $30,000 for the construction of a sewer system.

Morgan City, La.—See item under Water Supply-Irrigation.

Akron, Ohio—Bids were received for constructing the main trunk sewer to the Cuyahoga Valley as follows: McShaffrey & Son, $82,350; James Hunt, $57,360; McAlonan Bros., $68,455.

Columbus, Ohio.—Ordinances have been introduced in the city council for extensive sewer building in recently annexed territory. Bond issues for $165,000 are provided and it is proposed to construct sewers in the territory east of Cleveland Ave. and north of the Norfolk & Western railroad tracks south of Fifth Ave. Another territory to be sewered is Denmead Ave. from Leonard Ave. to Medill St.

†Piqua, Ohio.—The contract for the construction of the Decker Sanitary sewer has been awarded to SHANNON & SIEGLER, at $6,506. Noted Nov. 9.

Evansville, Ind.—The city is contemplating the extension of the sewer system in Law Ave.

Des Moines, Iowa.—It is reported that the city will construct the Seventh Ward sewer at an estimated cost of $125,000.

†Dennison, Iowa.—The contract for the construction of 9,400 ft. of sewer has been awarded to WILLIAM FITCH, Bee Bldg., Omaha, Neb., at $4,296.

Oswego, Kan.—Bids will be received by the City Clerk until noon, Dec. 5, for the construction of sanitary sewers in District B, comprising about two miles of 8 to 10-in. pipe with manholes, etc. M. A. Earl & Co., Muskogee, Okla., are the Design. Engrs.

Sedalia, Mo.—The city is contemplating the construction of a sewer and disposal plant at an estimated cost of $80,000. F. T. Leaming is Engr.

†Osceola, Ark.—The contract for the construction of sewers for the city has been awarded to ROETZLER & CHIPMAN, Evansville, Ind., at $16,762.

Dallas, Tex.—We are officially advised that the city contemplates the construction of a sewage disposal plant and several miles of storm and sanitary sewers. R. R. Nelms is Sewer Comr.

Oklahoma City, Okla.—The City Commissioners have decided to ask for bids for the construction of a new sewer system in Packingtown. The estimated cost is $17,000. W. C. Burke is City Engr.

Las Cruces, N. Mex.—See item under Water Supply-Irrigation.

Las Vergas, Nev.—Louis C. Kelsey, 1196 East St., Salt Lake City, Utah, and Selling Bldg., Portland, Ore., has been retained by the city to prepare plans and specifications for a municipal sanitary sewer system.

Edmonds, Wash.—The City Council has voted to adopt plans for a sewerage system recommended by W. C. Bickford, City Engr. Estimated cost, $30,000.

Westmoreland, Ore. — Plans have been prepared for a complete sewer system for the city. The estimated cost is $60,921.

Boulder Creek, Cal.—The city is contemplating the construction of a sewer on the center line of Lorenzo and Oak Sts. Jas. M. Maddock is Clk.

GARBAGE DISPOSAL.

(†Denotes a contract awarded.)

†Boston, Mass.—Contracts have been awarded as follows by the city for removing snow and ice in Snow Districts Nos. 1, 2, 3, 4, 5 and 6: To COLEMAN BROS., Chelsea, Mass., for Nos. 1 and 6, at 50 cts. per cu. yd. for each district; to JOSEPH McGREEVEY, Roxbury, Mass., for No. 2 at 37 cts.; to the C. J. JACOBS CO., Roxbury, for Nos. 3 and 5, at 34 cts. and 32 cts., respectively. All bids for No. 4 were rejected and new bids will be asked. The bids on No. 4, opened on Nov. 13, follow: Coleman Bros., 44 cts.; C. J. Jacobs Co., 38 cts.; Mark H. Lynch, 45 cts.; J. C. Coleman & Sons Co., 55 cts.; John T. Keogh, 31 cts.

***†Paterson, N. J.**—The Board of Public Works on Nov. 21 awarded the contract to the DESTRUCTOR CO., 111 Broadway, New York, for the refuse and garbage incinerating plant, at $81,000. Bids were opened Oct. 17. List of bidders noted Nov. 2.

Connellsville, Pa.—The Council has granted a 10-year franchise to the Connellsville Garbage & Fertilizer Co., of Connellsville, to dispose of the city's garbage.

Philadelphia, Pa.—Bids were received as follows by the city Nov. 22 for garbage disposal: General Mfg. Co., Philadelphia, Pa., $420,000; Penn Reduction Co., Philadelphia, $510,000; Peoples Bros., Philadelphia, $530,000.

Toronto, Ont.—Rudolph Hering, Consult. Engr., 170 Broadway, New York, has recommended the installation of a garbage reduction plant, having a capacity of 240 tons per day, ten miles east of the city, and two rubbish incinerators of 40 tons capacity in the city. Loading stations with railway sidings would be required in the city, and motive power for the reduction plant would be obtainable from the civic Hydro Electric Commission. The construction of a reduction plant would cost $538,200, and the erection of the incinerators $255,300. Noted Nov. 16.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.)

Boston, Mass.—Bids will be received until Dec. 1 by the Public Works Department for the construction of tar macadam roadway in Nazing St., Roxbury District. L. K. Rourke is Comr. Pub. Wks.

†Boston, Mass.—The contract for the construction of a tar macadam roadway in Canterbury St., West Roxbury District, was awarded Nov. 17 to THOMAS F. MINTON, at $10,636. Other bids were: James Doherty, $12,463; John Kelly Co., $12,783; West Roxbury Trap Rock Co., $12,803; Moore & Co., $15,686.

†The contract for the construction of a tar macadam roadway in Fisher Ave., Roxbury District, was awarded Nov. 17 to JAMES DOHERTY, at $10,025. Other bids were: John McCourt & Co., $10,129; J. C. Coleman & Sons Co., $10,775; John Kelly Co., $12,005. Noted Nov. 16.

Waterbury, Conn.—Bids will be received by the Board of Public Works until 8 p. m., Dec. 5, for laying about 1,800 sq. yds. of bituminous macadam pavement in Willow St. R. A. Cairns is City Engr.

Buffalo, N. Y.—The City Council has ordered the paving of Warren Ave., 28 ft. wide, with asphalt.

†Syracuse, N. Y.—The Board of Contract and Supply has awarded to F. J. BAKER, at $7,155, the contract for paving Lodi St., between Green and James Sts.

Ventnor (Atlantic City post-office), **N. J.**—Bids will be received by the Common Council until Dec. 6 for constructing about 38,000 to 48,000 sq. yds. asphalt-macadam pavement with vitrified block gutters on Atlantic Ave. W. I. Risley is City Engr.

†Belle Vernon, Pa.—The contract for paving 900 ft. on Broad Ave. has been awarded to O'CONNOR & MADIGAN, Connellsville, Pa., at $6,911.

Wilkes-Barre, Pa.—Press reports state that the Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelphia, Pa., has submitted a bid of $221,925 for the construction of county road from Fairview to Freeland.

Baltimore, Md.—The Paving Commission has decided to arrange at once for paving ten miles of streets. R. Keith Compton is Chn. of Comn.

Baltimore, Md.—Joseph Shirley, Ch. Engr., Topographical Survey, City Hall Annex, is preparing plans for the development and improvement of the Reisterstown Road from Fulton and Pennsylvania Aves. to Pimlico Ave. The proposed width is 95 ft.; the work to be done by the city and Baltimore County.

†Washington, D. C.—Press reports state that the District Commissioners have awarded the contract for improving Forfeit Run Road to M. POPE, at $15,633.

†Charleston, S. C.—We are officially advised that the contract for constructing vitrified brick pavement on Americus and Columbus Sts. has been awarded to the CHARLESTON ENGINEERING & CONTRACTING CO., Charleston, S. C., at about $7,500.

Fort Pierce, Fla.—We are officially advised that bids will be received about Jan. 15, for constructing roads in

St. Lucie County. Estimated cost, $200,000. D. D. and C. M. Rogers, Daytona, Fla., are Consult. Engrs.

Jacksonville, Fla.—Bids will be received by the Board of Commissioners of Duval County until 10 a. m., Dec. 29, for furnishing all material and doing all the work and completing vitrified brick, concrete and asphalt macadam pavements on New York Ave., from a point near Youkon, to the county line, and on the John Anderson Highway, from Loretta to the county line. Gail L. Barnard is County Engr.

Senatobia, Miss.—Bids will be received by the Board of County Supervisors until Dec. 4, for constructing several roads. J. A. Wooten is Chancery Clk.

Newport, Ky.—We are officially advised that the city contemplates paving various streets. Estimated cost, $200,000. Baillie Morlidge is Comr. Pub. Wks.

Dayton, Ohio.—Bids will be received until Dec. 4 by J. C. Ely, Dir. Pub. Ser., for improving Burkhardt Ave., North Main St. and various other streets.

Cincinnati, Ohio.—Bids will be received until noon, Dec. 8, for paving and grading with asphalt, Michigan Ave., from Observatory to Erie Ave. John J. Wenner is Clk. Dept. Pub. Wks.

+Youngstown, Ohio.—The Board of Control has awarded to JAMES McCARRON & SON a contract for paving Dewey Ave., at $10,883.

Lisbon, Ohio.—The County Commissioners have instructed B. M. French to prepare plans for the improvement of the Wilsville-Lisbon road.

Youngstown, Ohio.—The lowest bids received by the Board of Public Service for paving were as follows: Hayes Ave., $6,867; W. E. Gartland, Warren Ave., $8,192.

+Carbondale, Ill.—A contract for paving Poplar St. with macadam has been awarded to CRAINE BROS., at $27,644.

Lincoln, Neb.—Bids will be received at the office of the Clerk of Lancaster County, until 2 p. m., Dec. 27, for paving O St., from 33d St. to the east line of Section 30. H. E. Wells is County Clerk.

Sulphur Springs, Tex.—The city is contemplating the paving of the public square.

+Dallas, Tex.—The City Commission has awarded a contract to J. A. GREGORY for paving with pine blocks the portion between Houston St. and Commerce St. and the new Dallas-Oak Cliff viaduct at $10,045. The contract was also let for bitulithic paving on Carroll Ave. between Elm St. and East Side Ave. to the TEXAS BITULITHIC CO.

Clifton, Ariz.—Bids will be received by the Board of Supervisors until 10 a. m., Dec. 4, for the construction of a 13-mile road from York Flat to Duncan-Clifton. G. W. Wheatley is Clk.

Wenatchee, Wash.—Press reports state that the State Highway Commission, Olympia, has directed the Great Northern Ry. to construct a 10-ft. roadway from Wenatchee, about 13 miles up the Columbia River. Estimated cost, $125,000.

+Coalinga, Cal.—The contract for the construction of a new sewer has been awarded to H. M. SHAFFER at $23,316.

+Huntington Park, Cal.—A contract has been awarded to the JOHNSON SHEA CO., Riverside, for improving the Pacific Boulevard, at 33.3 cts. per lin. ft. for cement curb; $575 for culverts; 12½ cts. per sq. ft. for macadam paving. The work will aggregate $40,000.

+Los Angeles, Cal.—The contract for improving Adams St., from Sixth Ave. to the west city limits, has been awarded to the BARBER ASPHALT PAVING CO., at $17,2[illegible]

+The following contracts have been awarded to BENJAMIN F. FORD, Copp Bldg.: For improving Jefferson St., between Western and Second Aves., at $10,697; for improving Alvarado St., from Pico to Hoover St., at $8,369; for improving Figuerva St., from Washington to Jefferson St., at $56,583; for improving Hoover St., between 28th and Jefferson Sts., at $10,072.

+Los Angeles, Cal.—The following contracts were awarded by the Board of Public Works on Nov. 21: To L. H. McGOWAN, for sidewalking 16th St., betwen Figueroa St. and Pacific Ave., at $9,379.34; to the FAIRCHILD GILMORE WILTON CO., for improving Ninth St., between Park View St. and Vermont Ave., $16,705; for improving Alvarado Terrace between Hoover and Pico St. at $27,043; to O. L. STEVENS, for constructing cement sidewalks on Washington St., between Arlington St. and the western city line at $4,995.

+Sacramento, Cal.—The Board of Trustees have awarded the contract for paving 18th St., from R to Y Sts., with oiled macadam, to A. TEICHORT.

Santa Barbara, Cal.—Bids will be received by the Board of Supervisors until 11 a. m., Dec. 4, for paving 11.14 miles of road in the Goleta Road District.

Hamilton, Ont.—The city is contemplating the paving of Ludlow St., from Fourth to East Ave., at a cost of $22,366. F. E. Weaver is City Engr.

MANUFACTURING PLANTS.

(+Denotes a contract awarded.)

Brookline, Mass.—The Holtzer-Cabot Electric Co. plans the construction of a 3-story, brick factory building. Samuel D. Kelley, 209 Washington St., Boston, is Arch.

+Holyoke, Mass. — Daniel O'Connell's Sons, general contractors for the new mill of the Merrick Lumber Co. on Appleton St., have awarded subcontracts as follows: Cut stone work, DAVID McCORMICK & SON; steel work, WALSH'S HOLYOKE STEAM BOILER WORKS. Ellsworth & Howes drew the plans for the building. Noted Oct. 26 and Nov. 2.

Ipswich, Mass. — A plant will be erected here by the Essex Hosiery Co.

Springfield, Mass.—Bids will be asked for about Dec. 1 for the bakery building to be erected on Carew St. for E. A. Dexter, to be 114 × 100 ft., three stories, brick mill construction. Samuel M. Dexter, Inc., is the Arch.

+Worcester, Mass.—The contract has been awarded to F. W. MARKS to erect a manufacturing building on Eden St. for the Day Estate. It will be of brick, mill construction, 50 × 100 ft., and three stories high. George T. Tribe is Arch.

+Hartford, Conn.—The contract has been awarded to the TIDEWATER BUILDING CO., New York, for another factory building at the plant of the Underwood Typewriter Co. It will be of brick, mill construction, 50 × 217 ft. and five stories high.

Montville, Conn.—It is reported that the Thames River Specialty Co., Hartford, will construct a cotton mill at Montville. The cost will be about $500,000.

Seymour, Conn.—The H. A. Matthews Manufacturing Co. will soon start construction work on their factory which was recently destroyed by fire.

Buffalo, N. Y.—It is reported that J. H. Williams & Co., Brooklyn, N. Y., will remove here and erect a large plant. The concern has a 90-acre site here, and will employ 700 hands.

Buffalo, N. Y.—The Niagara Machine & Tool Works will construct at Northland Ave. and the New York Central R. R. Belt Line, a 4-story factory addition of concrete construction.

Canandaigua, N. Y.—The Canandaigua Lake Ice Co. will erect a large ice plant here. Charles J. Brady, Canandaigua, is Pres.

+Little Falls, N. Y.—The Barnett Leather Co. has awarded the general contract to the TURNER CONSTRUCTION CO., New York City, for the erection of a 6-story and basement factory of concrete. Cost, about $35,000. Plans by Linn Kinne, Utica, N. Y.

Little Falls, N. Y.—Arrangements are being completed by the C. J. Lundstrom Manufacturing Co., Little Falls, for the erection of a 5-story addition to their factory.

Syracuse, N. Y.—Merrick & Randalls, Archs., have been commissioned by the Brown Co., makers of auto accessories, to prepare plans for a two-story factory at Bellevue Ave. and Chester St.

+Utica, N. Y.—C. C. Kellogg & Sons have awarded contracts for erection of a 2-story lumber mill, 64 × 188 ft. from plans of Arch. F. Gauge, as follows: Foundation and carpentry to HENRY KASSON; masonry to HENRY LANCASTER; reinforced concrete to W. D. PETERS & CO.

+Coraopolis, Pa.—A contract has been awarded to W. T. POWELL for the construction of a factory addition for the Duquesne Steel Foundry Co. The building will be of brick and reinforced concrete, 52 × 82 ft., and three stories high.

Lancaster, Pa.—A permit has been granted to S. K. Bitner & Co. to construct a glass works on Lafayette St.

Philadelphia, Pa.—The Hellwig Silk Dyeing Co. has purchased a site of six acres on the Delaware River and will construct a number of buildings. The cost will be about $250,000.

Philadelphia, Pa. — The Vulcanite Paving Co. will erect a 2-story factory at Water and Tasker Sts., for John T. Bailey Co. The cost is about $61,000.

Philadelphia, Pa.—The Westmoreland Dye Works, 1927 East Westmoreland St., will erect a dye house. Plans are being prepared by McLaughlin Bros., 521 St. James St. The cost will be about $30,000.

Reading, Pa.—The Penn Planing Mill Co. is preparing to rebuild its plant, it is reported.

Baltimore, Md.—A 2-story warehouse addition will be constructed by Christian F. Kurrle to his pork-packing plant, 29 Jenkins Lane. Plans were prepared by B. W. Minor, Arch. The building will be erected in the rear of the present plant, and is to be entirely fireproof. It will be 20 × 25 ft., with slag roof and concrete foundation. Steam heat and electric light will be installed.

Norfolk, Va.—A fertilizer plant will be constructed by Baugh Sons & Co. About 20 acres of land have been purchased. The cost will be about $600,000.

+Roanoke, Va. — A planing mill building will be erected by Adams, Payne & Gleves. The general contract has been awarded to RHODE & WADE, Roanoke, Va.

Charleston, W. Va.—It is reported that Collison-Pierson & Co., a newly organized company, will construct a garage and repair shop.

Moundsville, W. Va. — Plans have been prepared by C. D. McCarty, Reilly Bldg., Wheeling, for the construction of a glass factory, warehouse and assorting roof. The Fostoria Glass Co., Moundsville, is owner.

Rome, Ga. — The Georgia Supply & Machine Co. has recently been organized, capitalized at $60,000 for the purpose of constructing a plant and manufacturing a complete line of mill supplies.

Tarpon Springs, Fla. — The Silllica Mining & Manufacturing Co. will erect a factory for the manufacture of glass.

Leeds, Ala.—It is reported that the Directors of the Standard Portland Cement Co., Leeds, has decided to double the capacity of its plant. Plans have not yet been prepared. The improvement will cost about $500,000.

Moss Point, Miss.—The L. N. Dantzler Lumber Co., Moss Point, will erect a paper pulp factory. The estimated cost is $500,000.

Louisville, Ky.—The Kentucky Wagon Manufacturing Co., Louisville, has taken over the business of the Electric Vehicle Co. and will enlarge its plant. Henry B. Hewett is Gen. Mgr.

Winchester, Ky. — A plant for the manufacture of gas will be erected by W. T. Ogden, Winchester, and other capitalists. The cost of the plant will be about $1,000,000.

Cleveland, Ohio.—A site has been purchased by the General Baking Co. at East 35th St. and Perkins Ave., on which they will construct a bakery. The new bakery will have a capacity of 20,000 loaves daily.

Cincinnati, Ohio.—Plans have been completed by L. Dittoe, Arch., Provident Bank Bldg., Cincinnati, for the new plant of the Cincinnati Veneer Co., whose factory was recently partially destroyed by fire.

East Liverpool, Ohio.—A plant will be constructed in East Liverpool by a company composed of L. M. Thomas, Joseph V. Clark, Fred Glenn, G. L. Brokaw and Edward Hoenig. The company is capitalized at $25,000 and will erect a plant to include a steel casting foundry and machine shop.

Fremont, Ohio.—The Fremont Furnace Co. will erect two factory buildings, it is reported. J. H. Combs is interested.

Fairmount, Ohio.—The Adler Underwear & Hosiery Co., Cincinnati, will, it is reported, enlarge the Fairmount Woolen Mills.

Kenton, Ohio.—Plans are being prepared for a factory building to be constructed by the Security Vault & Sheet Metal Works on Columbus Boulevard. This building will be 60 × 150 ft. with one-story and basement. It will be of heavy mill construction with galvanized iron roof and sides. The basement, which will be 10 ft. high, will be used for storage purposes.

Toledo, Ohio.—The Continental Sugar Co., Cleveland, is having plans prepared for the construction of a beet sugar factory. The cost will be about $1,500,000. An 80-acre site has been secured, and several reinforced-concrete buildings will be required.

Evansville, Ind.—The F. W. Cook Brewing Co. will ask for bids for the construction of a warehouse on the site of the building recently destroyed by fire as soon as plans are completed and the insurance adjusted.

+Lafayette, Ind.—The general contract for the construction of a factory building on Communipaw Ave., between Woodward St. and the Morris Canal, for the American Musle Supply Co., has been awarded to JOHN HANSEN at $25,947.

+Detroit, Mich.—The following contracts have been awarded by G. A. Mueller, Breitmeyer Bldg., Detroit, for the 1-story factory building: Structural iron work to the RUSSEL WHEEL & FOUNDRY CO., Chene St. and Belt Line R. R.; masonry, to LANNON & LINN, 217 Connecticut Ave. The cost is $28,000.

+Frank E. Hill, Detroit Gas Co., Bldg., has awarded contracts for the proposed 1-story foundry for the American Brass & Iron Co., Trombly and Crystal Aves., as follows: Structural iron contract, to WHITEHEAD & KALIS, Bucker Ave.; composition roofing, to CANDLES & OEHRIG, 963 Beaubein St. The cost is $25,000.

+Varney & Winter, 58 Equity Bldg., Detroit, have awarded the following contract for the 2-story factory building for H. G. Row, 378 Bellevue Ave.: Carpentry, to STRELOW & PITT, 700 Mack Ave. Cost, $20,000.

The Edison Illuminating Co., A. Dow, Gen. Mgr., 18 Washington Ave., is having plans prepared for a 1-story station. The owners will purchase materials and sublet contracts. Cost, about $30,000.

Detroit, Mich.—Plans are being prepared by Varney & Varney, Palmer Bldg., Detroit, for the construction of a 2-story factory building for the manufacture of concrete garbage receptacles. The cost will be about $25,000.

Plans are being prepared by Baxter & O'Dill, Hammond Bldg., for the construction of a 2-story and basement factory and office building. Newbro & Galogly, Cass and Milwaukee Aves., are owners. The cost is $40,000.

Grand Rapids, Mich.—T[illegible] Rapids Lumber Co., R. F. Sw[illegible] South Front St., has select[illegible] for a new wood working [illegible] which will be constructed [illegible] spring.

Monroe, Mich.—Plans a[illegible] prepared by J. H. Gilmore, [illegible] Elm St., Monroe, for the c[illegible] of a 3-story and basement f[illegible] the Miess Co., manufacturer[illegible] furniture. The cost will be [illegible]

+Owasso, Mich.—The Stan[illegible] Food Co., 412 Corunna St., O[illegible] awarded the general contrac[illegible] story and basement cereal [illegible] GEORGE CHARLTON, 307 [illegible] St. The cost will be about [illegible]

Saginaw, Mich.—The Brook[illegible] facturing Co., Saginaw, Mich[illegible] creased its capital from $[illegible] $400,000. They propose [illegible] their capacity for the manuf[illegible] knock-down furniture.

Saginaw, Mich.—The Cutler [illegible]ub Co. has been organized at Saginaw [illegible] for the purpose of erecting a plant an[illegible] manufacturing wooden hubs.

Chicago, Ill.—The Crane-Ha[illegible]ley Co., Chicago, is having plans pre[illegible]red for the construction of a 6-st[illegible] reinforced-concrete building [illegible] North Main St. The structure wil[illegible]e used for manufacturing purposes.

Chicago, Ill.—The Adams [illegible] Elting Co., Chicago, paint manufactur[illegible]s, have purchased a tract of land at [illegible]olorado and South 45th Sts. for the [illegible]erection of a factory.

Chicago, Ill.—Edward F. G[illegible]les has been granted a permit to erect a 4-story brick factory at 232 North Morgan St. The cost will be about $50,000.

Chicago, Ill.—About 26 acres of land in the Calumet district have been purchased for a Pittsburgh steel concern which will locate extensive plant there.

Harvey, Ill.—Plans are being prepared by Francis M. Barton, Arch., 178 West Jackson Boulevard Chicago, for the construction of a one and 2-story factory for the Joan D. Arc Manufacturing Co., Harvey.

Marine, Ill.—The Valier & Spies Milling Co., Marine, has purchased a vacant lot on Marcus Ave. near Birchen St. It is said the milling company contemplates building a warehouse for the distribution of its products in St. Louis.

Ottawa, Ill.—Plans are being prepared by White & Hanifen, Nertney Bldg., for the construction of a 2-story laundry building. The Illinois Laundry, 118 Jefferson St., is the owner.

Milwaukee, Wis.—The Wisconsin Lakes Ice & Cartage Co. will have a $20,000 ice house constructed on the banks of the Milwaukee River to replace the one burned this spring.

+New Denmark, Wis.—The contract has been awarded for a new condensed milk factory here to MARCEL LAMBEAU, Green Bay. The plans call for an expenditure of $100,000.

Portage, Wis.—The plant of the Portage Hosiery Co., which was partially destroyed by fire, will be rebuilt. Many improvements will be made.

Sheboygan, Wis.—Contracts have been awarded to C. ACKERMAN & SON for constructing an addition and remodeling the brewery of the K. Schreier Brewing Co., at $50,000. Two new malt houses are being planned.

West Allis, Wis.—The Milwaukee School and College of Aviation is planning to construct a foundry and machine shop. The cost will be about $50,000.

Mason City, Iowa.—The Colby Motor Co., Mason City, has had plans prepared for the construction of a 2-story and basement building. The estimated cost is $30,000.

+St. Paul, Minn.—The contract has been awarded to LIBBY & NELSON, Temple Court, Minneapolis, for the construction of a wholesale market and cold storage plant for George A. Hormel & Co., at Sixth and Pine Sts. Plans were prepared by D. I. Davis, Arch., 431 South Dearborn St., Chicago. The cost is about $25,000.

Omaha, Neb.—The Omaha & Council Bluffs Street Ry. Co. has been granted a permit to construct car shops at 27th and Ohio Sts. The cost will be about $20,000.

+Sioux Falls, S. Dak.—The contract has been awarded to the HOY & ELZY CO., 819 Metropolitan Bldg., St. Paul, Minn., for the construction of a telephone exchange for the Northwestern Telephone Exchange Co., St. Paul. The cost will be about $25,000. The plans were prepared by Reed & Stem, 600 Endicott Bldg., St. Paul.

Brownsville, Tex.—The Ohio & Texas Sugar Co. is to be reorganized and the capacity of its sugar mill here doubled by the time of the opening of the next sugar cane grinding season.

Fort Worth, Tex.—The Pierce-Fordyce Oil Association has acquired a site here for an oil refinery. It will erect a plant to cost about $1,500,000. It will also lay an 8-in. oil pipe line from Electra to Fort Worth, a distance of about 135 miles.

Port Aransas, Tex.—James [illegible]arley is installing a plant here for the pickling and shipping of salt mullet.

Marshall, Tex.—Herman Loeb will install a c[illegible]on compress here to cost $15,000.

Texas City, Tex.—The Pierce-Foo[illegible]sociation will enlarge its [illegible]dryce Oil [illegible] oil refinery [illegible]and storage facilities.

+Victoria, Tex.—The Texas Motor Car & Su[illegible]ly Co. has awarded the contract t[illegible] the BAILEY MILLS CO., Victoria, f[illegible] the erection of an addi[illegible]tion to its [illegible]achine shop here.

Wichita Falls, Tex.—The Carlson Strap Fas[illegible]ner Co. has been formed here with [illegible] capital of $10,000. The incorporat[illegible]s are F. A. Carlson, L. D. Rhodes, E[illegible]G. Cook and others.

Tulsa, Okla.—J. B. Kelvin, Gary, Ind., and S. E. [illegible]ght, Lebanon, Pa., are reported to [illegible] considering the construction of a r[illegible]lling mill at Sand Springs, near Tulsa.

Bowie, Ariz.—The Arizona Marble Co. will install a large marble cutting and finishing plant at its quarries near here. Gerald Hughes, Denver, Colo., is Pres.

Mt. Riley, N. Mex.—The Southwestern Marble Co., of El Paso, Tex., will install a marble cutting and finishing plant here to cost about $200,000.

Roswell, N. Mex.—H. P. Holt and associates will install a plant here for the manufacture of orchard heaters at a cost of $25,000.

Dunnville, Ont.—The Monarch Knitting Co. will erect an addition to its plant at St. Thomas, Ont., which will cost $60,000. The new structure will be devoted to the spinning of worsted yarns and its machinery will produce 600,000 lbs. yearly when in operation.

Tampico, Mex.—It is announced by J. T. Willet, Tampico, that he will soon award the contract for the erection of a brewery and packing house here.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

Wharf.—Boston, Mass.—Bids will be received until Dec. 2 by the Fire Department for the construction of a wharf and pier for fire-boats at Northern Ave. bridge. Charles D. Daly is Fire Comr.

Motor Fire Apparatus.—Boston, Mass.—The recent report on the Fire Department by a Special Commission advocates the replacement of horse-drawn by motor fire apparatus to a considerable extent. Charles D. Daly is Comr. Fire Dept.

+Rebuilding Piers.—Boston, Mass.—Bids were opened Nov. 21 by the Department of Public Works for rebuilding the piers at the North Ferry, Boston side. The contract has been awarded to RENDLE & STODDARD, East Boston, Mass., at $23,602.

Barge Canal.—Albany, N. Y.—Bids will be received by Charles E. Tremen, Supt. Pub. Wks., Albany, until noon, Dec. 20, for improving the Cayuga and Seneca Canal, as follows: Contract H, Cayuga and Seneca Canal, Section 1—For excavating a channel in Cayuga Lake Inlet at Ithaca from a point about 300 feet north of Cascadilla St. to deep water in Cayuga Lake. Length, 1.71 miles. Sheets 1 to 5, inclusive. Plans may be seen and detailed specification, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for bidders may be had at the office of the Superintendent of Public Works at Albany, at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y. Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany.

Riverfront Improvements.—Albany, N. Y.—The report of the Special Committee, appointed by the Chamber of Commerce, to study riverfront improvements, includes the following recommendations: Straightening lower State St. with new bridge to pier; elevation of Delaware & Hudson and the West Shore R. R. tracks and enlargement of the Union Station yards; erection of new Delaware & Hudson and Central R. R. freight house near Union Station; erection of trolley and express terminal and new Delaware & Hudson office building on lower State St.; removal of five grade crossings; creation of Delaware & Hudson freight yard between Broadway and Church St.; filling in by railroads of basin to bulkhead line of 1906; new concrete dock and new quay street from Columbia St. to South Ferry St., dock to be continued later to Island Creek; widening Broadway by acquisition of land between Broadway, State and Dodge Sts. and the river; enlargement of Riverside Park to South Ferry St. with new approach to Rensselaer Bridge. Estimated cost to city, $1,324,400; to New York Central R. R., $3,000,000, and to Delaware & Hudson R. R., $1,500,000.

Concrete Floor, etc.—Fort Lafayette, N. Y.—Bids for a steel concrete floor, iron balcony, stairs, railings, etc., for the U. S. Naval Magazine at Fort Lafayette, will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Dec. 23. Plans and specifications can be obtained on application to the Bureau or to the Inspector of Ordnance in charge of Naval Magazines, New York District, Iona Island, N. Y. R. C. Hollyday is Ch. Bureau.

Topsoil.—New York, N. Y.—Bids will be received until 3 p. m., Dec. 7, by the Park Board, Dept. of Parks, Arsenal Bldg., Fifth Ave. and 64th St., Boro. Manhattan, for furnishing and delivering topsoil or garden mould at Fort Greene Park and Sunset Park, Boro. Brooklyn.

Trolley Platform.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Dec. 7, Contract No. 1290, for furnishing all the labor and materials required for removing the present wooden trolley platform and building a new platform in steel and concrete and furnishing and installing electrollers, railings and electric cables at the St. George Ferry Terminal, Boro. Richmond.

Elevators.—New York, N. Y.—Bids will be received by Arthur J. O'Keefe, Comr. of Bridges until 2 p. m., Dec. 21, for furnishing and installing the elevators in the Municipal Building.

+Stone.—Collingswood, N. J.—The Borough Highway Committee has awarded the contract to R. C. TAYLOR, Collingswood, for furnishing 7,000 tons of crushed stone, at $1.47½ per ton. Bids were opened Nov. 3.

Tunnel.—Allentown, Pa.—Bids will be received until Dec. 2, by H. B. Schall, Secy. Lehigh Agricultural Society, Stiles Bldg., Allentown, for a tunnel under the society's race track. Estimated cost, $16,000 to $20,000.

+*Pier and Bulkhead.—Philadelphia, Pa.—The contract has been awarded by the city to BUTLER BROS. CONSTRUCTION CO., 1170 Broadway, New York, for the construction of a pier and bulkhead at the foot of Dock and

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
12- 2	Bridge and wharf, Indianhead, Md.	(S)11- 9
12- 2	Repairs to conveyors, Key West, Fla.	(S.)11-16
12-16	Magazine bldgs., Bremerton, Wash.	(S)11- 9
12-20	Distrib. system, Fort Logan, Colo.	(S.) 11-30
12-23	Concrete floor, etc., Fort Lafayette, N. Y.	(S.) 11-30

Light, Heat and Power Plants.

Bids close.		Noted in issue of
12- 3	Electric lighting system San Rafael, Cal.	11-30
12- 5	Street lighting system, San Rafael, Cal	11-30
12- 5	Conduits, lamp-poses, Alameda, Cal.	11-30
12- 5	Arc lamps, Kansas City, Kan.	11-30
12- 5	Electric light system, New York, N. Y.	11-23
12- 6	Steam plant, Enfield, N. C.	11-23
12- 7	Power machinery, New Orleans, La.	10-12
12- 9	Light plant, Piedmont, Ala.	11-16
12-12	Fire alarm system, New York.	11-30
12-16*	Materials, (See Proposals) Philadelphia, Pa.	11- 9
12-27*	Heating and ventilating apparatus, San Diego, Cal.	11-30
1- 3	Wiring, Placerville, Cal.	11-30

Bridges.

11-23	Bridge, Cedar Rapids, Neb.	11-30
12- 1*	Superstructure, Portland, Ore.	10-19
12- 2	Bridge, Indianhead, Md.	11- 9
12- 2	Bridge work, Cleveland, O.	11-16
12- 4	Bridge, Allentown, Pa.	11-23
12- 4	Bridge, San Diego, Cal.	11-30
12- 4	Bridge, Redwood City, Cal.	11-30
12- 5	Bridge, Walkerton, Ont.	11-30
12- 5	Bridges, Petersburg, Ind.	11-23
12- 5*	Bridge, Toledo, Ohio.	11-23
12- 6*	Bridge, Castle Hayne, N. C.	11- 9
12- 6	Bridge, Jacksonville, Fla.	11-30
12-15	Bridge Massillon, Ohio.	11-30
12-15	Bridge, Columbus, Ohio.	11-30
12-18	Drawbridge, South River, N. J.	11-30
12-18	Bridge, Oswego, N. Y.	11-30
12-18*	Bridges, Fulton, N. Y.	11-23
12-28*	Bridge, New Orleans, La.	11-16
1- 2	Bridge, Goldsboro, N. C.	11-30
1- 4	Bridge work, Preston, Iowa.	11-23
1-15	Viaduct, Atlanta, Ga.	11-23

Buildings.

12- 1	Bldgs., Hawaii (U. S. Poss.)	11- 9
12- 2*	U. S. post-office, Parsons, Kan.	10-19
12- 2	Hospital, Tacoma, Wash.	11-30
12- 4	Town Hall, Nahant, Mass.	11-23
12- 5	U. S. post-office, Union City Tenn.	10-19
12- 5	Infirmary, Rockville, Ind.	10-19
12- 5	College bldgs., Storrs, Conn.	11-16
12- 5	Shop bldg. (Mfg. Pl.), New York, N. Y.	11-23
12- 5	Laundry machinery (Mfg. Pl.), New York, N. Y.	11-23
12- 5	Superstructure for city hall, Cleveland, Ohio	11-23
12- 5	School, Portsmouth, Va.	11-30

Bids close.		Noted in issue of
12- 5	Buildings, Porto Rico (U. S. Poss.)	10-19
12- 6	City Hall, Cleveland Ohio.	11-16
12- 6	City hall and jail, Pasco, Wash.	11-23
12- 9*	Decorating court - house, Omaha, Neb.	11-23
12-11	Fire houses, New York, N. Y.	11-30
12-11	Armory, Woonsocket, R. I.	11-30
12-12	Court-house, Central City, Neb.	11-23
12-12*	Hospital equip., Pottsville, Pa.	11-16
12-14	U. S. marine hospital, Stapleton (S. I.), New York.	11-16
12-14*	U. S. post-office, Homestead, Pa.	10-19
12-18	Building, Richmond, Va.	11-30
12-19	Museum, Columbus, Ohio.	11-30
12-20	U. S. post-office, Westfield, Mass.	11-16
12-22*	Plumbing, Fort Snelling, Minn.	11-30
12-27	U. S. post-office, Miami, Fla.	11-16
12-27*	U. S. post-office, San Diego, Cal.	11-23
12-28	U. S. custom house, remodel, Boston, Mass	11- 2
12-29-30	Buildings, Hawaii, (U. S. Poss.)	11-30
1- 4	Hospital, Louisville, Ky.	11-23
1- 4	U. S. post-office Laporte, Ind.	11-30
1- 5	U. S. post-office, Maryville, Mo.	11-30
1- 6	U. S. post-office, Ellsworth, Me.	11-30
——	State Agricultural School, Curtis, Neb.	11-30
——	Business Block, Elwood, Ind.	11-23
——	Market, Muncie, Ind.	11-23
——	Car barns, Lagrange, Ind.	11-23
——	Remodeling armory, Buffalo, N. Y.	11-16
——	Y. M. C. A., Vincennes, Ind.	11-16
——	Church, Oak Forest, Ill.	11-16

Water-Works.

12- 1*	Water supply, Cumberland, Md	11- 2
12- 1	Pump, Galt, Ont	11-30
12- 1	Water pipe, Boston, Mass.	11-30
12- 1	Water mains, Des Plaines, Ill.	11-30
12- 1	Excavators, Boise, Idaho.	——
12- 2	Pumps, Chicago, Ill.	11-30
12- 2	Water-wks., Hubbard, Ohio.	11-16
12- 2	Well, DeKalb, Ill	11-23
12- 4	Water main, Fargo, N. Dak.	11-23
12- 4*	Reservoirs, etc., Clarksville, Tenn.	11-23
12- 4	Water system, Rushville, Ill.	11-16
12- 4	Pumping engines, Moose Jaw, Sask.	11- 9
12- 4	Water plant, Ambridge Pa.	11-30
12- 4	Pump, New York	11-30
12- 5	Water-wks., Elma, Wash.	11-16
12- 5*	Pumping engine, Muskogee, Okla.	11-23
12- 6*	Pumping engine, Erie, Pa.	11- 9
12- 6	Electrical energy, Fallon, Nev	11- 2
12- 6	Water tunnel, Cleveland, Ohio	11-30
12-7*	Pumping bldg., etc., Charlotte, N. C.	11-23
12- 9	Water extensions, Piedmont, Ala.	11-16
12-10*	Dam, etc., Boise, Idaho.	11-23
12-11*	Pump, Wilmington, Del.	11-23
12-11	Water mains, Falls City, Neb.	11-30
12-11	Water turbines, Wilmington, Del.	11-30
12-11	Pump, Hastings, Neb.	11-30
12-12	Water pipe, Moose Jaw, Sask.	11-30
12-12	Water pipe, Portland, Ore.	11-30

Bids close.		Noted in issue of
12-12	Pump, Mason City, Iowa.	11-23
12-13	Pumping plant, Wapato, Wash.	11-30
12-14	Pump house, etc., Scottsdale, Ariz.	——
12-14*	Pumping station, Clarksville, Tenn.	11-16
12-15	Pump house, tower, etc., Weepawa, Man	11- 2
12-15	Water-works, Loreauville, La.	11-23
12-15	Water system, Las Cruces, N. Mex.	11-30
12-15	Water-works, Bennington, Okla.	11-30
12-15	Filters, Fort Mason, Cal.	11-30
12-20	District system, Fort Logan, Colo.	11-30
12-20*	Pipe valves, etc., Quebec, Que.	11-30
12-20	Pumps, Chicago, Ill.	11-23
12-27	Water extensions, Vancouver, B. C.	11-30

Sewers.

12- 1	Sewer, Youngstown, Ohio.	11-23
12- 1*	Sewerage system, Glenellyn, Ill.	11-23
12- 4	Sewers, Atchison, Kan	11-23
12- 5	Sewer, Oswego, Kan.	11-30
12-11*	Disposal plant, Norristown, Pa.	11-16
12-12*	Sewer, New Bedford, Mass.	11-16
12-16*	Sewer system, Pleasant Ridge, Ohio	11-23

Streets and Roads.

12- 1	Paving, Edmonton, Alta.	11- 2
12- 1	Road improvement, Cincinnati, Ohio	11- 9
12- 1	Soil work, Boston, Mass.	11-16
12- 1	Clay road, Dadeville, Ala.	11-16
12- 1	Street imprvt., Wooster, O.	11-23
12- 1	Paving, Youngstown, Ohio.	11-23
12- 1	Paving, Boston, Mass.	11-30
12- 2	Macadam roads, Green Castle, Ind.	11-30
12- 4	Paving, Santa Barbara, Cal.	11-30
12- 4	Paving, etc., Dayton, Ohio.	11-30
12- 4	Road construction, Senatobia, Miss.	11-30
12- 4	Road, Clifton, Ariz.	11-30
12- 4	Gravel roads, Columbus, Ind.	11-30
12- 4	Paving, Brandon, Miss.	11-16
12- 4	Gravel road, Williamsport, Ind.	11-16
12- 4	Gravel roads, Fowler, Ind.	11-16
12- 4	Macadam road, Greenfield, Ind.	11-16
12- 4	Gravel road, Huntington, Ind.	11-16
12- 4	Paving, Atchison, Kan.	11-23
12- 4	Paving, Yonkers, N. Y.	11-23
15- 5	Stone road, Logansport, Ind.	11-16
12- 5	Gravel roads, Valparaiso, Ind.	11-16
12- 5	Gravel roads, Bedford, Ind.	11-30
12- 6	Paving, Ventnor, N. J.	11-30
12- 6	Gravel roads, Rockville, Ind.	11-30
12- 6	Gravel roads, Lafayette, Ind.	11-30
12- 8	Paving, Cincinnati, Ohio.	11-30
12- 9	Gravel roads, Brazil, Ind.	11-30
12-11	Road, Morocco. (Foreign)	11- 2
12-11	Highway, New Orleans, La.	11-23
12-19	Brick road, Belle Valley, O.	11-30
12-27	Paving, Lincoln, Neb.	11-30
1-15	Viaduct, Atlanta, Ga.	11-23
2- 1	Paving, Rochelle, Ill.	11-23

Miscellaneous.

12- 1	Monument, Elmira, N. Y.	11- 9
12- 1*	Pumping machinery, India, (Foreign)	9-21
12- 1	Drainage, Osceola, Ark.	10- 5
12- 1*	Hulls and boilers, Charleston, S. C.	11- 2
12- 1	Soil work, Boston, Mass.	11-16
12- 1	Gun carriages, Wash., D. C.	11-16
12- 1	Ditches, Carmi, Ill.	11-23
12- 1*	Sand-handling machinery, Peekskill, N. Y.	11-23
12- 2	Repairs to conveyors, Key West, Fla.	11-16
12- 2*	Cut stone, Nashville, Tenn.	11- 2
12- 2	Wharf, Boston, Mass.	11-30
12- 2	Tunnel, Allentown, Pa.	11-30
12- 4	Wire rope, Los Angeles, Cal.	11-30
12- 4*	Condensers, pumps, etc., Philippine Islands (U. S. Poss.)	10- 5
12- 4	*Engines, generators, etc., Philippine Islands (U. S. Poss.)	9-23
12- 5	Barge Canal, Albany, N. Y.	11- 9
12- 5	Subway, New York	11-16
12- 5*	Refuse disposal (Garbage), Boston, Mass.	11-16
12- 5	Steel plates, etc., Washington, D. C.	11-30
12- 6	Reinforcement material, Panama (U. S. Poss.)	11-23
12- 7*	Concrete work, Cincinnati, O.	11- 9
12- 7	Topsoil, New York	11-30
12- 8	Trolley platform, New York.	11-30
12-10	Steel rails, Slam. (Foreign)	11- 2
12-10*	Dam, etc., Boise, Idaho.	11-16
12-11	Wharf, Goderich, Ont.	11-30
12-12	Extension to fire alarm system, New York, N. Y.	11-30
12-12	Wire, Australia. (Foreign)	11- 2
12-12*	Hospital equip., Pottsville, Pa.	11-23
12-13	Removing snow and ice, (Garbage), Boston, Mass.	11- 9
12-15*	Hopper suction dredge, British West Indies (Foreign)	11- 9
12-15*	Dredging, New York	11-23
12-15*	Lighthouse, Baltimore, Md.	11-23
12-15	Tug, barges, etc., Winnipeg, Man.	11-30
12-16	Magazine buildings, Bremerton, Wash.	11- 9
12-16*	Light station, Phila., Pa.	11-16
12-19	Immigration station, New Orleans, La.	11-23
12-19*	Dump cars, Winnipeg, Man.	11-30
12-20	Ditch, Newton, Iowa	11-30
12-20	Barge canal, Albany, N. Y.	11-30
12-21	Elevators, New York	11-30
12-23	Concrete floor, etc., Fort Lafayette, N. Y.	11-30
12-23*	Steel forgings, etc., Wheeling, W. Va.	11-30
12-27*	Dredges, San Francisco, Cal.	10- 5
12-30*	Gate machines and pumps, Panama. (U. S. Poss.)	11- 2
1- 4	Battleships, Wash., D. C.	11- 9
2- 1	Gunboats, Wash., D. C.	11-23
3- 6	(1912) Cranes, rails, Uruguay. (Foreign)	11- 2
4-23*	(1912) Harbor work, Chile.	——
——	*Concrete, Montezuma, N. Y.	10-26
——	Excavation, Shelburne Falls, Mass.	9-23

Examinations.

Examination date		Noted in issue of
12-13	Expert Tracer and Bridge Draftsman, Washington, D. C.	11-23
12-13	Aid.—Washington, D. C.	11-30
12-28	Assistant mining engineer, Washington, D. C.	11-30

Spruce Sts., at $279,500. Bids were opened Nov. 20 by Joseph F. Hasskarl, Dir. Wharves, Docks and Ferries.

Pier.—Philadelphia, Pa.—The Pennsylvania R. R. Co. is planning to construct a large pier at the foot of Christian St., Delaware River. H. R. Leonard, Philadelphia, is Engr. B. & B.

Subway, Wharves.—Philadelphia, Pa.—The city is considering the construction of a subway under Broad St. and a system of wharves and docks. Harry A. Mackey is Dir. Pub. Wks.

Locks and Dams.—Pittsburgh, Pa.—Col. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburgh, has recommended to Gen. W. H. Bixby, Ch. Engr., Corps Engrs., U. S. A., Washington, D. C., the construction of five additional locks and dams in the Allegheny River.

✚Projectiles.—Washington, D. C.—The following contracts have been awarded by the Chief of Ordnance, U. S. N., Washington, for furnishing target projectiles: BETHLEHEM STEEL CO., South Bethlehem, Pa., 1,500 8-in. at $16.40, total, $24,600; 10,000 3-in. at $2.37, $23,700; total contract price, $48,300. AMERICAN & BRITISH MANUFACTURING CO., Bridgeport, Conn., 10,000 3-pounder at $1.29, $12,900; 10,000 6-pounder at $1.35, $13,500; total, $26,400. TREDEGAR CO., Richmond, Va., 1,200 12-in. at $36.48, $43,776; 1,000 5-in. at $6.70, $6,700; total, $50,476. No award was made for furnishing 50,000 1-pounder target projectiles, and new bids will be asked.

Projectiles.—Washington, D. C.—Bids were received as follows Nov. 22 by the Chief of Ordnance, Navy Dept., Washington, D. C., for furnishing 20,000 5-in., 50-lb. common projectiles; Bethlehem Steel Co., Bethlehem, Pa.: 20,000 at $14.25 each; E. W. Bliss Co., Brooklyn, 20,000 at $15; Midvale Steel Co., Philadelphia, Pa., 20,000 at $20; American & British Mfg. Co., Bridgeport, Conn., 7,500 at $13.49; Washington Steel & Ordnance Co., Washington, 500 at $13.50.

Steel Plates, etc.—Washington, D. C.—Bids will be received until Dec. 5 by the Bureau of Supplies and Accounts, Navy Dept., Washington, for furnishing at the navy yards and naval stations supplies as follows: Mare Island, Cal., Schedule 4060, 11,300 lbs. medium steel plates; 16,700 lbs. galvanized medium steel plates; 27,500 lbs. medium steel plates; 79,700 lbs. medium steel angles; 3,000 lbs. galvanized medium steel angles, galvanized sheet steel; 6,000 lbs. black sheet steel. Schedule 4062, 17,000 lbs. round bronze rod. Schedule 4063, 40 M. ft. spruce, 175 M. ft. merchantable Oregon pine. Schedule 4065, 22,500 lbs. steel floor plates, 39,000 lbs. billet steel, 13,000 lbs. soft sheet copper, sheet brass, commercial brass. Schedule 4066, galvanized and black iron pipe, galvanized malleable iron pipe fittings, 32,000 lbs. brass pipe, composition valves. Puget Sound, Wash., Schedule 4060, 5,500 lbs. galvanized medium steel shapes; 44,000 lbs. medium steel angles. Schedule 4065, 40,000 lbs. ingot copper. Philadelphia, Pa., Schedule 4104, 16,000 lbs. ingot aluminum. Washington, D. C., Schedule 4104, 16,000 lbs. galvanized corrugated sheet steel, etc. Application for proposals should designate the schedules desired by number.

Steel, Forgings, etc.—Wheeling, W. Va.—Bids will be received until 11 a. m., Dec. 23, by Maj. F. W. Altstaetter, Corps Engrs., U. S. A., for furnishing and delivering structural steel, forgings, cast iron, cast steel, bolts, etc., for lock and navigable pass, Dam No. 28, Ohio River.

✚Dredge Fill.—New Smyrna, Fla.—The contract has been awarded to FRANK A. ROOT for 40,000 cu. yds. of dredge fill here, at 18 cts. per cu. yd. Bids were opened Nov. 20 by D. D. and C. M. Rogers, Engrs., Daytona, Fla.

Pipe Line.—Kenton, Ohio.—The Medina Gas & Fuel Co., E. W. Hanly, Treas., Dayton, Ohio, has applied to the Public Service Commission for permission to issue $250,000 of bonds for a pipe line 60 miles long.

✚Retaining Wall.—West Union, Ohio.—The County Commissioners have awarded to J. YATES & SON, West Union, the contract for a reinforced concrete retaining wall at Wrightsville, at $7.75 per cu. yd.

✚Ditch.—Brownstown, Ind.—Bids were received Nov. 22, by Samuel Carr, Drainage Comr., at the office of the Clerk of Jackson Circuit Court, Brownstown, for constructing the Smart and Garriott Ditch, 28,675 ft. long, to be constructed by dredge. The contract has been awarded to FRED MORGAN, at $18,963.

Straightening Creek.—Grand Rapids, Mich. No work will be done on the project for straightening Coldbrook Creek from Emerald Ave. to Highland Park until spring. Between Emerald Ave. and East St. the new plan includes a culvert, and from East St. to the park an open channel with the slopes and bed paved with cobble stone or heavy gravel. Estimated cost, $28,000. Noted Nov. 23.

***Repairs to Canal Wall.**—Sault Ste. Marie, Mich.—Bids were received as follows Nov. 20 by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, Mich., for repairs to canal walls here: (a) Class A, 3,780 cu. yds.; (b) Class B, 400 cu. yds.; (c) backfilling, 1,500 cu. yds.; (d) 3,725 cu. yds. concrete; (e) 4,500 bbls. cement; (f) 19 tons iron; (g) totals: Great Lakes Dredge & Dock Co., (a) $1.25 per cu. yd., $4,725; (b) $2.50, $1,000; (c) 60 cts., $900; (d) $7.60, $28,310; (e) $1.50, $6,750; (f) $100, $1,900; (g) $43,585. H. E. Talbott Co., Dayton, Ohio, (a) $1.50, $5,670; (b) $2.50, $1,000; (c) 55 cts., $825; (d) $7.75, $28,869; (e) $1.50, $6,750; (f) $110, $2,090; (g) $45,204. Cullen Friestedt Co., Chicago, Ill., (a) $1, $3,780; (b) $2, $800; (c) 50 cts., $750; (d) $7.25, $27,006; (e) $1.40, $6,300; (f) $114, ($2,166; (g) $40,802.

Harbors.—Chicago, Ill.—The City Council on Nov. 20 passed the harbor ordinance providing for the construction of outer harbors. Noted Jan. 26.

Excavators.—Boise, Idaho.—See item under Water Supply—Irrigation.

✚Ditch.—Fort Dodge, Iowa.—The contract, bids opened Nov. 14, has been awarded by J. L. Hanrahan, County Audr., to E. GILMORE & SON, Lee, Ind., for constructing County Ditch No. 96, requiring about 526,100 cu. yds. of excavation, at 6.64 cts. per cu. yd.; total, $34,933. On a former call for bids all proposals were rejected. G. P. Smith of Fort Dodge is Engr. Noted Oct. 12, Nov. 2, and Nov. 9.

Ditch.—Newton, Iowa.—Bids will be received by H. S. Rayburn, County Audr., until Dec. 20, for the construction of the Skunk River ditch. The work will consist of cutting a new channel for South Skunk River about 110,318 ft. long, and 30 ft. wide at bottom, to include about 1,500,000 cu. yds. of excavation. W. F. Byers, Newton, is Engr.

✚Drainage.—Little Rock, Ark.—The contract for constructing Drainage District No. 3, it is reported, has been awarded to R. H. & G. W. McWILLIAMS, Chicago, Ill., at $47,000.

Levee.—Newport, Ark.—Ford & McCrea, Engrs., Gazette Bldg., Little Rock, Ark., have been retained to prepare plans for constructing the Village Creek and White River Levee in Jackson and Woodruff Counties. Estimated cost, $150,000.

Drainage.—Bay City, Tex.—The citizens of Dunbar Drainage District have voted, it is reported, to issue $27,900 of bonds for drainage work.

Ship Canal.—Beaumont, Tex.—Bids will probably be opened Jan. 2 by Capt. T. H. Jackson, Corps Engrs., U. S. A., Dallas, Tex., for dredging in the proposed Sabine-Neches ship canal to Beaumont. Noted Nov. 16.

Drainage Work.—Chandler, Okla.—Bids will be received until Dec. 20 by H. J. Wilkins Engr., Deep Fork Drainage District No. 1, Lincoln County, at Chandler, for drainage work in the district. The work will require 7,327,447 cu. yds. of excavation. The main canal will be about 40 miles long, 40 to 65-ft. base, with 13 to 15-ft. cut; the laterals will approximate eight miles, with 20-ft. base and 10-ft. average cut.

✚Fire-boat.—Portland, Ore.—SMITH & WATSON, Portland, have been awarded the contract by the Fire Committee of the City Executive Board for the construction of the new fire boat, "David Campbell," at $77,000.

Comfort Station.—Longbeach, Cal.—Austin & Sedgwick, Archs., 18 Locust Ave., have prepared plans for the construction of a reinforced concrete comfort station at the foot of Pier Ave., east of the pleasure pier. The building will be 134 × 31 ft., with an extension 32 × 14 ft. The interior will be faced with enameled brick.

✚Repairing Steamer.—Portland, Ore.—The Olson & Mahoney Steamship Co. has awarded the contract to JOSEPH SUPPLE for repairing the steamer, "Washington."

✚Drainage Ditch.—Stanfield, Ore.—The Umatilla Drainage District has awarded the contract to the ESCHBRUCE CO., North Yakima, Wash., for the construction of a drainage ditch, at $16,000. The contract for 5,000 ft. of concrete pipe in connection with the work has been let to E. O. COTANT and H. W. HALL, Pendleton, Ore., at $1.25 per ft.

Piles and Timbers.—Los Angeles, Cal.—The following bids were received by the Board of Public Works Nov. 10 for furnishing creosoted piles and timbers for improving the harbor: Pacific Creosoting Co., Seattle, Wash., $77,558; Universal Engineering Co., San Francisco, $85,805; Consolidated Lumber Co., Los Angeles, $105,924.

Wire Rope.—Los Angeles, Cal.—Bids will be received by the Board of Public Works until 11 a. m., Dec. 4, for furnishing wire rope.

Wharf.—Martinez, Cal.—Bids for constructing the wharf for the Dutch Oil Co., Martinez, have been asked and plans are being prepared for the wharf and for the refineries which are to be erected. It is expected that work on the wharf will be begun soon.

Street Cars.—San Francisco, Cal.—The following bids were received by the Board of Public Works Nov. 15 for furnishing 43 "pay-as-you-enter" type of street cars and extra trucks for the Geary St. municipal railway: Jewett Car Co., Newark, Ohio, 43 semi-steel cars, $6,554 each; total, $281,862; extra trucks, $1,340 each, $5,360; total bid, $287,222. McGuire-Cummings Mfg. Co., Chicago, Ill., same, $7,145 each, $307,23; extra trucks, $1,350 each, $5,400; total bid, $312,635. W. L. Holman Co., San Francisco, same, $7,693 each, $330,799; extra trucks, $1,608 each, $6,432; total bid, $337,231. Pierson Roeding Co., San Francisco, representing J. G. Brill Co., Philadelphia, Pa., same, $9,600 each, $412,800; extra trucks, $1,625 each, $6,500; total bid, $419,300. For same, $7,950 each, $341,850; extra trucks, $1,625 each, $6,500; total bid, $348,350.

Pier.—San Francisco, Cal.—The Harbor Commissioners approved plans and specifications on Nov. 9 for the construction of Pier 17, to be built in place of the Union St. wharf.

Harbor Improvement.—San Diego, Cal.—The citizens, it is reported, have voted in favor of issuing $1,000,000 of bonds for improving San Diego Harbor.

Pier.—Santa Cruz, Cal.—The Santa Cruz Portland Cement Co. will construct a reinforced-concrete and steel pier here. Estimated cost, $500,000.

✚*Subway Superstructure—Saskatoon, Sask.—Bids were received as follows Nov. 17 by the City Commissioners for the superstructure of the 19th St. subway: DOMINION BRIDGE CO., LTD., Montreal, Que., $15,598 (awarded contract); Canadian Bridge Co., $15,850; Manitoba Bridge & Iron Works, Ltd., $19,968; W. P. McNeil & Co., Ltd., $19,900; Cleveland Bridge & Engineering Co., $20,000; for structural steel erection only: Dickson Bridge Works Co., $15,375; Canada Foundry Co., $16,000.

***Dump Cars.**—Winnipeg, Man.—Bids addressed to the Chairman, Board of Control, will be received at the office of M. Peterson, Secy. Bd., until 11 a. m., Dec. 19, for 15 or 20 side dump cars for stone or gravel. Instructions to bidders, general conditions and forms of proposal may be obtained at the office of the City Engineer, 223 James Ave.

Tug, Barges, Etc.—Winnipeg, Man.—Bids will be received until Dec. 15 by N. J. Black, 308 Grain Exchange, Winnipeg, for three barges, one tug, one ship barge, and sand dredge and three quarry derricks to lift from three to six tons, and one large stone crusher, with boilers and engines complete, to be built on the Red River or on Lake Winnipeg. Particulars may be obtained from William Bruce, 222 McDermott Ave., Winnipeg. Noted Nov. 23.

Wharf.—Goderich, Ont.—Bids will be received until Dec. 11 by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for the construction of a wharf here.

Drydock.—Esquimault, B. C.—Plans are being prepared by the British Columbia Marine Ry. Co. of Vancouver, B. C., for the construction of a concrete drydock here.

✚Wharves and Bunkers.—Nanaimo, B. C.—The Vancouver & Nanaimo Coal Co. has awarded a contract to RENNIE, CAMPBELL & IRONSIDES, Vancouver, B. C., for the construction of wharves and bunkers on Newcastle Townsite. Estimated cost, $50,000.

***Harbor Work.**—Chile.—Bids for the construction of Valparaiso Harbor will be received in the "Ministerio de Hacienda," in Santiago, Chile, until 3 p. m., April 23. Plans and information can be consulted in New York in the office of the Consulate General of Chile, 2 Rector St., Room 431, from noon to 2 p. m.

U. S. POSSESSIONS AND CUBA.

Dredging.—Hawaii.—The following bids have been opened by Maj. W. P. Wooten, Corps Engrs., U. S. A., Honolulu, H. T., for dredging in Kahului Harbor, about 293,000 cu. yds.: Hawaiian Dredging Co., Honolulu, 56 cts. per cu. yd.; Standard American Dredging Co., San Francisco, Cal., 59¼ cts.

✚Lumber.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded the contract to the CHAS. NELSON CO., San Francisco, Cal., for 3,189,000 ft. of lumber (fir), at $66,213. Bids were opened on Nov. 10 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer. List of bidders noted Nov. 16.

Buildings.—Hawaii.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Dec. 30, for erecting seven industrial buildings at the U. S. Naval Station, Pearl Harbor, H. T. Plans and specifications can be obtained on application to the Bureau or to the Commandant of the Naval Station. Bids for erecting the buildings will also be received at the office of the Commandant of the Naval Station until 4.30 p. m., Dec. 29.

Cranes and Derricks—Panama.—Bids were received as follows Nov. 22 under Circular 662, by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing a construction plant to be used chiefly in the erection of machinery and electrical equipment at the locks of the Panama Canal. It consists of the following: Class 1, Item (1), four 15-ton locomotive cranes; (2) one to six auxiliary hooks and lines; Class 2, Item 1, four 11-ton stiff-leg derricks, (2) four hoisting engines for above derricks: American Hoist & Derrick Co., St. Paul, Minn., Class 1, (1) $49,700, (2) $390 each; Class 2, (1) $22,058, (2) $6,193; alternative bid "A," Class 1, (1) $33,916; Class 2, both items, $22,493; alternative bid "B," on electric hoists, Class 2, both items, $22,880. Brown Hoisting Machinery Co., Cleveland, Ohio, Class 1, (1) $48,400, (2) $400 each; alternative bid, Class 1, (1) $35,400, (2) $400 each. Browning Engineering Co., Cleveland, Class 1, (1) $34,00[illegible] $450 each; alternative bid [illegible] (1) $31,156, (2) $200; $300 [illegible] native bid "B," Class 1, (1) $[illegible] $150, $250 each. Industrial [illegible] City, Mich., Class 1, (1) $30,[illegible] each. Lenher Engineering [illegible] York, Class 2, (2) $7,800; [illegible] bid on electric hoists, (2) $[illegible] Myler Interstate Co., Cleveland [illegible] (1) $39,400, (2) unit $175; [illegible] $12,296; alternative bid, C[illegible] $32,440, (2) $100. Modern S[illegible] tural Co., Waukesha, Wis., [illegible] $14,200. Ohio Locomotive [illegible] Bucyrus, Ohio, Class 1, (1) [illegible] bidder's specifications. Ort[illegible] brenner, Chicago, Ill., Class [illegible] 984, (2) unit $110, $225; alter[illegible] Class 1, (1) $26,352. Willi[illegible] Co., Philadelphia, Pa., Cla[illegible] 180. Lidgerwood Mfg. Co[illegible] Class 2, (1) $11,988, (2) $13[illegible] native bids on Class 2, (2) $12[illegible] 695, $9,332; on electric hoist[illegible] $11,572 on General Electric [illegible] and $21,288, $13,720 on Wes[illegible] equipment.

EXAMINATIONS.

Aid.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 13-14, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Aid and Deck Officer in the Coast and Geodetic Survey, unless it is found to be in the interest of the service to fill such vacancies by reinstatement, transfer, or promotion. As the commission has experienced considerable difficulty in securing a sufficient number of eligibles to meet the needs of the service in these positions, qualified persons are urged to enter this examination. The examination will consist of the subjects mentioned below, weighted as indicated: Mathematics, 15 points; practical computations, 15 points; astronomy, 10 points; physics, 10 points; surveying, 10 points; modern languages, 10 points; drawing and descriptive geometry, 10 points; training, experience, and fitness, 20 points. Applicants must have reached their 18th but not their 25th birthday. Examination form 1312. Aids are appointed at a salary of $900 per annum. The next steps in the line of promotion are to salaries of $1,000 and $1,100 as aid, and thence to assistant at $1,200, and then upward by steps of $200 each. The law now provides for five aids at $900 per annum, eighteen aids at $1,000, and six at $1,100; thirty-four assistants at $1,200 to $1,800, and thirty assistants at $2,000 to $4,000.

Assistant Mining Engineer.—Washington, D. C.—The U. S. Civil Service Commission announces on Dec. 28, an examination to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Mining Engineer in the Bureau of Mines, Pittsburgh, Pa., or other places, at a salary ranging from $1,800 to $2,400 a year, and vacancies requiring similar qualifications as they may occur in any branch of the service, unless it is found to be in the interest of the service to fill the vacancy by reinstatement, transfer or promotion. The duties of the person appointed to this position will be to assist and participate in tests of mine rescue apparatus and mine safety lamps, in instruction and training of men in the use of such apparatus, in exploring and assisting in the recovery of mines after disasters, and in the conduct of the mine rescue and training work at the various stations of the bureau. Headquarters will be at Pittsburgh, Pa., but the nature of the duties will involve considerable field work, which will require the assistant mining engineer to travel extensively over the United States, conducting investigations along the lines mentioned. The examination will consist of the subjects mentioned below, weighted as indicated: General education and technical training, 40 points; technical and professional experience and fitness, 40 points; publications on mining engineering or allied topics, or thesis, 20 points. Applicants must have reached their 21st, but not their 50th birthday. Examination form 304 and special form.

For other Proposal Advertisements see pages

49, 50, 51, 52, 54

of Advertisements and Construction News, page 246

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 29, 1911.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 10th day of January, 1912, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and interior lighting fixtures), of the U. S. Post Office at Gaffney, S. C. The building is one story and basement, and has a ground area of approximately 4,200 square feet; fireproof construction throughout; stone facing and tin roof. Drawings and specifications may be obtained from the Custodian of Site at Gaffney, S. C., or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

Please Mention ENGINEERING NEWS